

TABLE 1

ELLIPTIC CURVES

The table is arranged in blocks by conductor. Each conductor is given in factorized form at the top of its block (repeated, if necessary, on continuation pages), together with the number of isogeny classes of curves with that conductor. Each block is subdivided into isogeny classes by a row of dashes.

The columns of the table give the following data for each curve E :

- (1) an identifying letter (A, B, C, ...) for each isogeny class of curves with the same conductor, choosing consecutive letters for the curves in the order in which they were computed. Within each isogeny class we also number the curves in that class, with curve 1 being the “strong Weil curve”.¹ For ease of reference, when $N \leq 200$ we also give the identifying letter of each curve as given in Table 1 of [2].
- (2) The integer coefficients a_1, a_2, a_3, a_4 and a_6 of a minimal equation for E .
- (3) The rank r of $E(\mathbb{Q})$.
- (4) The order $|T|$ of the torsion subgroup T of $E(\mathbb{Q})$.
- (5) The sign of the discriminant Δ of E , and its factorization.
- (6) The prime factorization of the denominator of $j(E)$.
- (7) The local indices c_p for the primes of bad reduction.
- (8) The Kodaira symbols for E at each prime of bad reduction.
- (9) The curves isogenous to E via an isogeny of prime degree, with the degree l in bold face. For example, the entry “**2**: 3; **3**: 2, 6” for curve 448C4 indicates it is 2-isogenous to 448C3 and 3-isogenous to both 448C2 and 448C6. From these entries it is easy to draw isogeny diagrams for each isogeny class in the manner of the Antwerp tables [2]. We regret that we could not persuade Birch to draw little diagrams for us in this column, as he did for [2].

For convenience, we give the factorization of N at the head of each section of the table. This order of the ‘bad’ prime factors p_1, \dots, p_k of N is used within the table itself. We give the discriminant $\Delta = \pm p_1^{e_1} \dots p_k^{e_k}$ in factorized form as \pm, e_1, \dots, e_k in the columns headed s , $\text{ord}(\Delta)$. The column headed $\text{ord}_-(j)$ contains the exponents of these same primes in the denominator of the j -invariant, as in [2]. Finally the local factors c_p , and then the Kodaira symbols, are given for each of these primes in order.

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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11 **11**
 $N = 11 = 11$ (1 isogeny class)

A1(B)	0	-1	1	-10	-20	0	5	-	5	5	5	I_5	5 : 2, 3
A2(C)	0	-1	1	-7820	-263580	0	1	-	1	1	1	I_1	5 : 1
A3(A)	0	-1	1	0	0	0	5	-	1	1	1	I_1	5 : 1

14 **14**
 $N = 14 = 2 \cdot 7$ (1 isogeny class)

A1(C)	1	0	1	4	-6	0	6	-	6, 3	6, 3	2, 3	I_6, I_3	2 : 2; 3 : 3, 4
A2(D)	1	0	1	-36	-70	0	6	+	3, 6	3, 6	1, 6	I_3, I_6	2 : 1; 3 : 5, 6
A3(E)	1	0	1	-171	-874	0	2	-	18, 1	18, 1	2, 1	I_{18}, I_1	2 : 5; 3 : 1
A4(A)	1	0	1	-1	0	0	6	-	2, 1	2, 1	2, 1	I_2, I_1	2 : 6; 3 : 1
A5(F)	1	0	1	-2731	-55146	0	2	+	9, 2	9, 2	1, 2	I_9, I_2	2 : 3; 3 : 2
A6(B)	1	0	1	-11	12	0	6	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 4; 3 : 2

15 **15**
 $N = 15 = 3 \cdot 5$ (1 isogeny class)

A1(C)	1	1	1	-10	-10	0	8	+	4, 4	4, 4	2, 4	I_4, I_4	2 : 2, 3, 4
A2(E)	1	1	1	-135	-660	0	4	+	8, 2	8, 2	2, 2	I_8, I_2	2 : 1, 5, 6
A3(B)	1	1	1	-5	2	0	8	+	2, 2	2, 2	2, 2	I_2, I_2	2 : 1, 7, 8
A4(F)	1	1	1	35	-28	0	8	-	2, 8	2, 8	2, 8	I_2, I_8	2 : 1
A5(H)	1	1	1	-2160	-39540	0	2	+	4, 1	4, 1	2, 1	I_4, I_1	2 : 2
A6(G)	1	1	1	-110	-880	0	2	-	16, 1	16, 1	2, 1	I_{16}, I_1	2 : 2
A7(D)	1	1	1	-80	242	0	4	+	1, 1	1, 1	1, 1	I_1, I_1	2 : 3
A8(A)	1	1	1	0	0	0	4	-	1, 1	1, 1	1, 1	I_1, I_1	2 : 3

17 **17**
 $N = 17 = 17$ (1 isogeny class)

A1(C)	1	-1	1	-1	-14	0	4	-	4	4	4	I_4	2 : 2
A2(B)	1	-1	1	-6	-4	0	4	+	2	2	2	I_2	2 : 1, 3, 4
A3(D)	1	-1	1	-91	-310	0	2	+	1	1	1	I_1	2 : 2
A4(A)	1	-1	1	-1	0	0	4	+	1	1	1	I_1	2 : 2

19 **19**
 $N = 19 = 19$ (1 isogeny class)

A1(B)	0	1	1	-9	-15	0	3	-	3	3	3	I_3	3 : 2, 3
A2(C)	0	1	1	-769	-8470	0	1	-	1	1	1	I_1	3 : 1
A3(A)	0	1	1	1	0	0	3	-	1	1	1	I_1	3 : 1

20 **20**
 $N = 20 = 2^2 \cdot 5$ (1 isogeny class)

A1(B)	0	1	0	4	4	0	6	-	8, 2	0, 2	3, 2	IV^*, I_2	2 : 2; 3 : 3
A2(A)	0	1	0	-1	0	0	6	+	4, 1	0, 1	3, 1	IV, I_1	2 : 1; 3 : 4
A3(D)	0	1	0	-36	-140	0	2	-	8, 6	0, 6	1, 2	IV^*, I_6	2 : 4; 3 : 1
A4(C)	0	1	0	-41	-116	0	2	+	4, 3	0, 3	1, 1	IV, I_3	2 : 3; 3 : 2

21 **21**
 $N = 21 = 3 \cdot 7$ (1 isogeny class)

A1(B)	1	0	0	-4	-1	0	8	+	4, 2	4, 2	4, 2	I_4, I_2	2 : 2, 3, 4
A2(D)	1	0	0	-49	-136	0	4	+	2, 4	2, 4	2, 2	I_2, I_4	2 : 1, 5, 6
A3(C)	1	0	0	-39	90	0	8	+	8, 1	8, 1	8, 1	I_8, I_1	2 : 1
A4(A)	1	0	0	1	0	0	4	-	2, 1	2, 1	2, 1	I_2, I_1	2 : 1
A5(F)	1	0	0	-784	-8515	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 2

TABLE 1: ELLIPTIC CURVES 24A–34A

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
24	$N = 24 = 2^3 \cdot 3$ (1 isogeny class)												24
A1(B)	0	-1	0	-4	4	0	8	+	8, 2	0, 2	4, 2	I_1^*, I_2	2 : 2, 3, 4
A2(C)	0	-1	0	-24	-36	0	4	+	10, 4	0, 4	2, 2	III^*, I_4	2 : 1, 5, 6
A3(D)	0	-1	0	-64	220	0	4	+	10, 1	0, 1	2, 1	III^*, I_1	2 : 1
A4(A)	0	-1	0	1	0	0	4	-	4, 1	0, 1	2, 1	III, I_1	2 : 1
A5(F)	0	-1	0	-384	-2772	0	2	+	11, 2	0, 2	1, 2	II^*, I_2	2 : 2
A6(E)	0	-1	0	16	-180	0	2	-	11, 8	0, 8	1, 2	II^*, I_8	2 : 2
26	$N = 26 = 2 \cdot 13$ (2 isogeny classes)												26
A1(B)	1	0	1	-5	-8	0	3	-	3, 3	3, 3	1, 3	I_3, I_3	3 : 2, 3
A2(C)	1	0	1	-460	-3830	0	1	-	9, 1	9, 1	1, 1	I_9, I_1	3 : 1
A3(A)	1	0	1	0	0	0	3	-	1, 1	1, 1	1, 1	I_1, I_1	3 : 1
B1(D)	1	-1	1	-3	3	0	7	-	7, 1	7, 1	7, 1	I_7, I_1	7 : 2
B2(E)	1	-1	1	-213	-1257	0	1	-	1, 7	1, 7	1, 1	I_1, I_7	7 : 1
27	$N = 27 = 3^3$ (1 isogeny class)												27
A1(B)	0	0	1	0	-7	0	3	-	9	0	3	IV^*	3 : 2, 3
A2(D)	0	0	1	-270	-1708	0	1	-	11	0	1	II^*	3 : 1
A3(A)	0	0	1	0	0	0	3	-	3	0	1	II	3 : 1, 4
A4(C)	0	0	1	-30	63	0	3	-	5	0	1	IV	3 : 3
30	$N = 30 = 2 \cdot 3 \cdot 5$ (1 isogeny class)												30
A1(A)	1	0	1	1	2	0	6	-	4, 3, 1	4, 3, 1	2, 3, 1	I_4, I_3, I_1	2 : 2; 3 : 3
A2(B)	1	0	1	-19	26	0	12	+	2, 6, 2	2, 6, 2	2, 6, 2	I_2, I_6, I_2	2 : 1, 4, 5; 3 : 6
A3(C)	1	0	1	-14	-64	0	2	-	12, 1, 3	12, 1, 3	2, 1, 1	I_{12}, I_1, I_3	2 : 6; 3 : 1
A4(D)	1	0	1	-69	-194	0	6	+	1, 12, 1	1, 12, 1	1, 12, 1	I_1, I_{12}, I_1	2 : 2; 3 : 7
A5(E)	1	0	1	-289	1862	0	6	+	1, 3, 4	1, 3, 4	1, 3, 2	I_1, I_3, I_4	2 : 2; 3 : 8
A6(F)	1	0	1	-334	-2368	0	4	+	6, 2, 6	6, 2, 6	2, 2, 2	I_6, I_2, I_6	2 : 3, 7, 8; 3 : 2
A7(G)	1	0	1	-5334	-150368	0	2	+	3, 4, 3	3, 4, 3	1, 4, 1	I_3, I_4, I_3	2 : 6; 3 : 4
A8(H)	1	0	1	-454	-544	0	2	+	3, 1, 12	3, 1, 12	1, 1, 2	I_3, I_1, I_{12}	2 : 6; 3 : 5
32	$N = 32 = 2^5$ (1 isogeny class)												32
A1(B)	0	0	0	4	0	0	4	-	12	0	4	I_3^*	2 : 2
A2(A)	0	0	0	-1	0	0	4	+	6	0	2	III	2 : 1, 3, 4
A3(C)	0	0	0	-11	-14	0	2	+	9	0	1	I_0^*	2 : 2
A4(D)	0	0	0	-11	14	0	4	+	9	0	2	I_0^*	2 : 2
33	$N = 33 = 3 \cdot 11$ (1 isogeny class)												33
A1(B)	1	1	0	-11	0	0	4	+	6, 2	6, 2	2, 2	I_6, I_2	2 : 2, 3, 4
A2(A)	1	1	0	-6	-9	0	2	+	3, 1	3, 1	1, 1	I_3, I_1	2 : 1
A3(D)	1	1	0	-146	621	0	4	+	3, 4	3, 4	1, 4	I_3, I_4	2 : 1
A4(C)	1	1	0	44	55	0	2	-	12, 1	12, 1	2, 1	I_{12}, I_1	2 : 1
34	$N = 34 = 2 \cdot 17$ (1 isogeny class)												34
A1(A)	1	0	0	-3	1	0	6	+	6, 1	6, 1	6, 1	I_6, I_1	2 : 2; 3 : 3
A2(B)	1	0	0	-43	105	0	6	+	3, 2	3, 2	3, 2	I_3, I_2	2 : 1; 3 : 4
A3(C)	1	0	0	-103	-411	0	2	+	2, 3	2, 3	2, 1	I_2, I_2	2 : 4; 3 : 1

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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35 $N = 35 = 5 \cdot 7$ (1 isogeny class) 35

A1(B)	0	1	1	9	1	0	3	−	3, 3	3, 3	1, 3	I_3, I_3	$3 : 2, 3$
A2(C)	0	1	1	−131	−650	0	1	−	9, 1	9, 1	1, 1	I_9, I_1	$3 : 1$
A3(A)	0	1	1	−1	0	0	3	−	1, 1	1, 1	1, 1	I_1, I_1	$3 : 1$

36 $N = 36 = 2^2 \cdot 3^2$ (1 isogeny class) 36

A1(A)	0	0	0	0	1	0	6	−	4, 3	0, 0	3, 2	IV, III	$2 : 2; 3 : 3$
A2(B)	0	0	0	−15	22	0	6	+	8, 3	0, 0	3, 2	IV^*, III	$2 : 1; 3 : 4$
A3(C)	0	0	0	0	−27	0	2	−	4, 9	0, 0	1, 2	IV, III^*	$2 : 4; 3 : 1$
A4(D)	0	0	0	−135	−594	0	2	+	8, 9	0, 0	1, 2	IV^*, III^*	$2 : 3; 3 : 2$

37 $N = 37 = 37$ (2 isogeny classes) 37

A1(A)	0	0	1	−1	0	1	1	+	1	1	1	I_1	
B1(C)	0	1	1	−23	−50	0	3	+	3	3	3	I_3	$3 : 2, 3$
B2(D)	0	1	1	−1873	−31833	0	1	+	1	1	1	I_1	$3 : 1$
B3(B)	0	1	1	−3	1	0	3	+	1	1	1	I_1	$3 : 1$

38 $N = 38 = 2 \cdot 19$ (2 isogeny classes) 38

A1(D)	1	0	1	9	90	0	3	−	9, 3	9, 3	1, 3	I_9, I_3	$3 : 2, 3$
A2(E)	1	0	1	−86	−2456	0	1	−	27, 1	27, 1	1, 1	I_{27}, I_1	$3 : 1$
A3(C)	1	0	1	−16	22	0	3	−	3, 1	3, 1	1, 1	I_3, I_1	$3 : 1$
B1(A)	1	1	1	0	1	0	5	−	5, 1	5, 1	5, 1	I_5, I_1	$5 : 2$
B2(B)	1	1	1	−70	−279	0	1	−	1, 5	1, 5	1, 1	I_1, I_5	$5 : 1$

39 $N = 39 = 3 \cdot 13$ (1 isogeny class) 39

A1(B)	1	1	0	−4	−5	0	4	+	2, 2	2, 2	2, 2	I_2, I_2	$2 : 2, 3, 4$
A2(C)	1	1	0	−69	−252	0	2	+	4, 1	4, 1	2, 1	I_4, I_1	$2 : 1$
A3(D)	1	1	0	−19	22	0	4	+	1, 4	1, 4	1, 4	I_1, I_4	$2 : 1$
A4(A)	1	1	0	1	0	0	2	−	1, 1	1, 1	1, 1	I_1, I_1	$2 : 1$

40 $N = 40 = 2^3 \cdot 5$ (1 isogeny class) 40

A1(B)	0	0	0	−7	−6	0	4	+	8, 2	0, 2	2, 2	I_1^*, I_2	$2 : 2, 3, 4$
A2(D)	0	0	0	−107	−426	0	2	+	10, 1	0, 1	2, 1	III^*, I_1	$2 : 1$
A3(A)	0	0	0	−2	1	0	4	+	4, 1	0, 1	2, 1	III, I_1	$2 : 1$
A4(C)	0	0	0	13	−34	0	4	−	10, 4	0, 4	2, 4	III^*, I_4	$2 : 1$

42 $N = 42 = 2 \cdot 3 \cdot 7$ (1 isogeny class) 42

A1(A)	1	1	1	−4	5	0	8	−	8, 2, 1	8, 2, 1	8, 2, 1	I_8, I_2, I_1	$2 : 2$
A2(B)	1	1	1	−84	261	0	8	+	4, 4, 2	4, 4, 2	4, 2, 2	I_4, I_4, I_2	$2 : 1, 3, 4$
A3(C)	1	1	1	−104	101	0	4	+	2, 8, 4	2, 8, 4	2, 2, 2	I_2, I_8, I_4	$2 : 2, 5, 6$
A4(D)	1	1	1	−1344	18405	0	4	+	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	$2 : 2$
A5(F)	1	1	1	−914	−10915	0	2	+	1, 4, 8	1, 4, 8	1, 2, 2	I_1, I_4, I_8	$2 : 3$
A6(E)	1	1	1	386	1277	0	2	−	1, 16, 2	1, 16, 2	1, 2, 2	I_1, I_{16}, I_2	$2 : 3$

43 $N = 43 = 43$ (1 isogeny class) 43

TABLE 1: ELLIPTIC CURVES 44A–52A

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
44	$N = 44 = 2^2 \cdot 11$ (1 isogeny class)												44
A1(A)	0	1	0	3	-1	0	3	-	8, 1	0, 1	3, 1	IV*, I ₁	3 : 2
A2(B)	0	1	0	-77	-289	0	1	-	8, 3	0, 3	1, 1	IV*, I ₃	3 : 1
45	$N = 45 = 3^2 \cdot 5$ (1 isogeny class)												45
A1(A)	1	-1	0	0	-5	0	2	-	7, 1	1, 1	2, 1	I ₁ *, I ₁	2 : 2
A2(B)	1	-1	0	-45	-104	0	4	+	8, 2	2, 2	4, 2	I ₂ *, I ₂	2 : 1, 3, 4
A3(D)	1	-1	0	-720	-7259	0	2	+	7, 1	1, 1	4, 1	I ₁ *, I ₁	2 : 2
A4(C)	1	-1	0	-90	175	0	4	+	10, 4	4, 4	4, 2	I ₄ *, I ₄	2 : 2, 5, 6
A5(E)	1	-1	0	-1215	16600	0	4	+	14, 2	8, 2	4, 2	I ₈ *, I ₂	2 : 4, 7, 8
A6(F)	1	-1	0	315	1066	0	2	-	8, 8	2, 8	2, 2	I ₂ *, I ₈	2 : 4
A7(H)	1	-1	0	-19440	1048135	0	2	+	10, 1	4, 1	2, 1	I ₄ *, I ₁	2 : 5
A8(G)	1	-1	0	-990	22765	0	2	-	22, 1	16, 1	4, 1	I ₁₆ *, I ₁	2 : 5
46	$N = 46 = 2 \cdot 23$ (1 isogeny class)												46
A1(A)	1	-1	0	-10	-12	0	2	-	10, 1	10, 1	2, 1	I ₁₀ , I ₁	2 : 2
A2(B)	1	-1	0	-170	-812	0	2	+	5, 2	5, 2	1, 2	I ₅ , I ₂	2 : 1
48	$N = 48 = 2^4 \cdot 3$ (1 isogeny class)												48
A1(B)	0	1	0	-4	-4	0	4	+	8, 2	0, 2	2, 2	I ₀ *, I ₂	2 : 2, 3, 4
A2(D)	0	1	0	-64	-220	0	2	+	10, 1	0, 1	2, 1	I ₂ *, I ₁	2 : 1
A3(C)	0	1	0	-24	36	0	8	+	10, 4	0, 4	4, 4	I ₂ *, I ₄	2 : 1, 5, 6
A4(A)	0	1	0	1	0	0	2	-	4, 1	0, 1	1, 1	II, I ₁	2 : 1
A5(F)	0	1	0	-384	2772	0	4	+	11, 2	0, 2	2, 2	I ₃ *, I ₂	2 : 3
A6(E)	0	1	0	16	180	0	8	-	11, 8	0, 8	4, 8	I ₃ *, I ₈	2 : 3
49	$N = 49 = 7^2$ (1 isogeny class)												49
A1(A)	1	-1	0	-2	-1	0	2	-	3	0	2	III	2 : 2; 7 : 3
A2(B)	1	-1	0	-37	-78	0	2	+	3	0	2	III	2 : 1; 7 : 4
A3(C)	1	-1	0	-107	552	0	2	-	9	0	2	III*	2 : 4; 7 : 1
A4(D)	1	-1	0	-1822	30393	0	2	+	9	0	2	III*	2 : 3; 7 : 2
50	$N = 50 = 2 \cdot 5^2$ (2 isogeny classes)												50
A1(E)	1	0	1	-1	-2	0	3	-	1, 4	1, 0	1, 3	I ₁ , IV	3 : 2; 5 : 3
A2(F)	1	0	1	-126	-552	0	1	-	3, 4	3, 0	1, 1	I ₃ , IV	3 : 1; 5 : 4
A3(G)	1	0	1	-76	298	0	3	-	5, 8	5, 0	1, 3	I ₅ , IV*	3 : 4; 5 : 1
A4(H)	1	0	1	549	-2202	0	1	-	15, 8	15, 0	1, 1	I ₁₅ , IV*	3 : 3; 5 : 2
B1(A)	1	1	1	-3	1	0	5	-	5, 2	5, 0	5, 1	I ₅ , II	3 : 2; 5 : 3
B2(B)	1	1	1	22	-9	0	5	-	15, 2	15, 0	15, 1	I ₁₅ , II	3 : 1; 5 : 4
B3(C)	1	1	1	-13	-219	0	1	-	1, 10	1, 0	1, 1	I ₁ , II*	3 : 4; 5 : 1
B4(D)	1	1	1	-3138	-68969	0	1	-	3, 10	3, 0	3, 1	I ₃ , II*	3 : 3; 5 : 2
51	$N = 51 = 3 \cdot 17$ (1 isogeny class)												51
A1(A)	0	1	1	1	-1	0	3	-	3, 1	3, 1	3, 1	I ₃ , I ₁	3 : 2
A2(B)	0	1	1	-59	-196	0	1	-	1, 3	1, 3	1, 1	I ₁ , I ₃	3 : 1
52	$N = 52 = 2^2 \cdot 13$ (1 isogeny class)												52
A1(B)	0	0	0	1	-10	0	2	-	8, 2	0, 2	1, 2	IV*, I ₂	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
53	$N = 53 = 53$ (1 isogeny class)												53
A1(A)	1	-1	1	0	0	1	1	-	1	1	1	I_1	
54	$N = 54 = 2 \cdot 3^3$ (2 isogeny classes)												54
A1(E)	1	-1	0	12	8	0	3	-	3, 9	3, 0	1, 3	I_3, IV^*	3 : 2, 3
A2(F)	1	-1	0	-123	-667	0	1	-	9, 11	9, 0	1, 1	I_9, II^*	3 : 1
A3(D)	1	-1	0	-3	3	0	3	-	1, 3	1, 0	1, 1	I_1, II	3 : 1
B1(A)	1	-1	1	1	-1	0	3	-	3, 3	3, 0	3, 1	I_3, II	3 : 2, 3
B2(C)	1	-1	1	-29	-53	0	1	-	1, 9	1, 0	1, 1	I_1, IV^*	3 : 1
B3(B)	1	-1	1	-14	29	0	9	-	9, 5	9, 0	9, 3	I_9, IV	3 : 1
55	$N = 55 = 5 \cdot 11$ (1 isogeny class)												55
A1(B)	1	-1	0	-4	3	0	4	+	2, 2	2, 2	2, 2	I_2, I_2	2 : 2, 3, 4
A2(D)	1	-1	0	-29	-52	0	2	+	1, 4	1, 4	1, 2	I_1, I_4	2 : 1
A3(C)	1	-1	0	-59	190	0	4	+	4, 1	4, 1	4, 1	I_4, I_1	2 : 1
A4(A)	1	-1	0	1	0	0	2	-	1, 1	1, 1	1, 1	I_1, I_1	2 : 1
56	$N = 56 = 2^3 \cdot 7$ (2 isogeny classes)												56
A1(C)	0	0	0	1	2	0	4	-	8, 1	0, 1	4, 1	I_1^*, I_1	2 : 2
A2(D)	0	0	0	-19	30	0	4	+	10, 2	0, 2	2, 2	III^*, I_2	2 : 1, 3, 4
A3(E)	0	0	0	-59	-138	0	2	+	11, 4	0, 4	1, 2	II^*, I_4	2 : 2
A4(F)	0	0	0	-299	1990	0	2	+	11, 1	0, 1	1, 1	II^*, I_1	2 : 2
B1(A)	0	-1	0	0	-4	0	2	-	10, 1	0, 1	2, 1	III^*, I_1	2 : 2
B2(B)	0	-1	0	-40	-84	0	2	+	11, 2	0, 2	1, 2	II^*, I_2	2 : 1
57	$N = 57 = 3 \cdot 19$ (3 isogeny classes)												57
A1(E)	0	-1	1	-2	2	1	1	-	2, 1	2, 1	2, 1	I_2, I_1	
B1(B)	1	0	1	-7	5	0	4	+	2, 2	2, 2	2, 2	I_2, I_2	2 : 2, 3, 4
B2(A)	1	0	1	-2	-1	0	2	+	1, 1	1, 1	1, 1	I_1, I_1	2 : 1
B3(C)	1	0	1	-102	385	0	4	+	4, 1	4, 1	4, 1	I_4, I_1	2 : 1
B4(D)	1	0	1	8	29	0	2	-	1, 4	1, 4	1, 2	I_1, I_4	2 : 1
C1(F)	0	1	1	20	-32	0	5	-	10, 1	10, 1	10, 1	I_{10}, I_1	5 : 2
C2(G)	0	1	1	-4390	-113432	0	1	-	2, 5	2, 5	2, 1	I_2, I_5	5 : 1
58	$N = 58 = 2 \cdot 29$ (2 isogeny classes)												58
A1(A)	1	-1	0	-1	1	1	1	-	2, 1	2, 1	2, 1	I_2, I_1	
B1(B)	1	1	1	5	9	0	5	-	10, 1	10, 1	10, 1	I_{10}, I_1	5 : 2
B2(C)	1	1	1	-455	-3951	0	1	-	2, 5	2, 5	2, 1	I_2, I_5	5 : 1
61	$N = 61 = 61$ (1 isogeny class)												61
A1(A)	1	0	0	-2	1	1	1	-	1	1	1	I_1	
62	$N = 62 = 2 \cdot 31$ (1 isogeny class)												62
A1(A)	1	-1	1	-1	1	0	4	-	4, 1	4, 1	4, 1	I_4, I_1	2 : 2
A2(B)	1	-1	1	-21	41	0	4	+	2, 2	2, 2	2, 2	I_2, I_2	2 : 1, 3, 4
A3(C)	1	-1	1	-31	5	0	2	+	1, 4	1, 4	1, 2	I_1, I_4	2 : 2

TABLE 1: ELLIPTIC CURVES 63A–70A

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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63 **63**
 $N = 63 = 3^2 \cdot 7$ (1 isogeny class)

A1(A)	1	-1	0	9	0	0	2	-	8, 1	2, 1	2, 1	I_2^*, I_1	2 : 2
A2(B)	1	-1	0	-36	27	0	4	+	10, 2	4, 2	4, 2	I_4^*, I_2	2 : 1, 3, 4
A3(C)	1	-1	0	-351	-2430	0	2	+	14, 1	8, 1	4, 1	I_8^*, I_1	2 : 2
A4(D)	1	-1	0	-441	3672	0	4	+	8, 4	2, 4	4, 2	I_2^*, I_4	2 : 2, 5, 6
A5(F)	1	-1	0	-7056	229905	0	4	+	7, 2	1, 2	4, 2	I_1^*, I_2	2 : 4
A6(E)	1	-1	0	-306	5859	0	2	-	7, 8	1, 8	2, 2	I_1^*, I_8	2 : 4

64 **64**
 $N = 64 = 2^6$ (1 isogeny class)

A1(B)	0	0	0	-4	0	0	4	+	12	0	4	I_2^*	2 : 2, 3, 4
A2(C)	0	0	0	-44	-112	0	2	+	15	0	2	I_5^*	2 : 1
A3(D)	0	0	0	-44	112	0	4	+	15	0	4	I_5^*	2 : 1
A4(A)	0	0	0	1	0	0	2	-	6	0	1	II	2 : 1

65 **65**
 $N = 65 = 5 \cdot 13$ (1 isogeny class)

A1(A)	1	0	0	-1	0	1	2	+	1, 1	1, 1	1, 1	I_1, I_1	2 : 2
A2(B)	1	0	0	4	1	1	2	-	2, 2	2, 2	2, 2	I_2, I_2	2 : 1

66 **66**
 $N = 66 = 2 \cdot 3 \cdot 11$ (3 isogeny classes)

A1(A)	1	0	1	-6	4	0	6	+	2, 3, 1	2, 3, 1	2, 3, 1	I_2, I_3, I_1	2 : 2; 3 : 3
A2(B)	1	0	1	4	20	0	6	-	1, 6, 2	1, 6, 2	1, 6, 2	I_1, I_6, I_2	2 : 1; 3 : 4
A3(C)	1	0	1	-81	-284	0	2	+	6, 1, 3	6, 1, 3	2, 1, 1	I_6, I_1, I_3	2 : 4; 3 : 1
A4(D)	1	0	1	-41	-556	0	2	-	3, 2, 6	3, 2, 6	1, 2, 2	I_3, I_2, I_6	2 : 3; 3 : 2
B1(E)	1	1	1	-2	-1	0	4	+	4, 1, 1	4, 1, 1	4, 1, 1	I_4, I_1, I_1	2 : 2
B2(F)	1	1	1	-22	-49	0	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1, 3, 4
B3(H)	1	1	1	-352	-2689	0	2	+	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	2 : 2
B4(G)	1	1	1	-12	-81	0	2	-	1, 4, 4	1, 4, 4	1, 2, 2	I_1, I_4, I_4	2 : 2
C1(I)	1	0	0	-45	81	0	10	+	10, 5, 1	10, 5, 1	10, 5, 1	I_{10}, I_5, I_1	2 : 2; 5 : 3
C2(J)	1	0	0	115	561	0	10	-	5, 10, 2	5, 10, 2	5, 10, 2	I_5, I_{10}, I_2	2 : 1; 5 : 4
C3(L)	1	0	0	-10065	-389499	0	2	+	2, 1, 5	2, 1, 5	2, 1, 5	I_2, I_1, I_5	2 : 4; 5 : 1
C4(K)	1	0	0	-10055	-390309	0	2	-	1, 2, 10	1, 2, 10	1, 2, 10	I_1, I_2, I_{10}	2 : 3; 5 : 2

67 **67**
 $N = 67 = 67$ (1 isogeny class)

A1(A)	0	1	1	-12	-21	0	1	-	1	1	1	I_1	
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69 **69**
 $N = 69 = 3 \cdot 23$ (1 isogeny class)

A1(A)	1	0	1	-1	-1	0	2	-	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
A2(B)	1	0	1	-16	-25	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 1

70 **70**
 $N = 70 = 2 \cdot 5 \cdot 7$ (1 isogeny class)

A1(A)	1	-1	1	2	-3	0	4	-	4, 2, 1	4, 2, 1	4, 2, 1	I_4, I_2, I_1	2 : 2
A2(B)	1	-1	1	-18	-19	0	4	+	2, 4, 2	2, 4, 2	2, 2, 2	I_2, I_4, I_2	2 : 1, 3, 4
A3(D)	1	-1	1	-268	-1619	0	2	+	1, 2, 4	1, 2, 4	1, 2, 2	I_1, I_2, I_4	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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72 **72**
 $N = 72 = 2^3 \cdot 3^2$ (1 isogeny class)

A1(A)	0	0	0	6	-7	0	4	-	4, 7	0, 1	2, 4	III, I ₁ [*]	2 : 2
A2(B)	0	0	0	-39	-70	0	4	+	8, 8	0, 2	2, 4	I ₁ [*] , I ₂ [*]	2 : 1, 3, 4
A3(D)	0	0	0	-579	-5362	0	2	+	10, 7	0, 1	2, 2	III [*] , I ₁ [*]	2 : 2
A4(C)	0	0	0	-219	1190	0	4	+	10, 10	0, 4	2, 4	III [*] , I ₄ [*]	2 : 2, 5, 6
A5(F)	0	0	0	-3459	78302	0	2	+	11, 8	0, 2	1, 2	II [*] , I ₂ [*]	2 : 4
A6(E)	0	0	0	141	4718	0	2	-	11, 14	0, 8	1, 4	II [*] , I ₈ [*]	2 : 4

73 **73**
 $N = 73 = 73$ (1 isogeny class)

A1(B)	1	-1	0	4	-3	0	2	-	2	2	2	I ₂	2 : 2
A2(A)	1	-1	0	-1	0	0	2	+	1	1	1	I ₁	2 : 1

75 **75**
 $N = 75 = 3 \cdot 5^2$ (3 isogeny classes)

A1(A)	0	-1	1	-8	-7	0	1	-	1, 4	1, 0	1, 1	I ₁ , IV	5 : 2
A2(B)	0	-1	1	42	443	0	1	-	5, 8	5, 0	1, 1	I ₅ , IV [*]	5 : 1
B1(E)	1	0	1	-1	23	0	2	-	1, 7	1, 1	1, 2	I ₁ , I ₁ [*]	2 : 2
B2(F)	1	0	1	-126	523	0	4	+	2, 8	2, 2	2, 4	I ₂ , I ₂ [*]	2 : 1, 3, 4
B3(G)	1	0	1	-251	-727	0	4	+	4, 10	4, 4	4, 4	I ₄ , I ₄ [*]	2 : 2, 5, 6
B4(H)	1	0	1	-2001	34273	0	2	+	1, 7	1, 1	1, 2	I ₁ , I ₁ [*]	2 : 2
B5(I)	1	0	1	-3376	-75727	0	4	+	8, 8	8, 2	8, 4	I ₈ , I ₂ [*]	2 : 3, 7, 8
B6(J)	1	0	1	874	-5227	0	2	-	2, 14	2, 8	2, 4	I ₂ , I ₈ [*]	2 : 3
B7(L)	1	0	1	-54001	-4834477	0	2	+	4, 7	4, 1	4, 4	I ₄ , I ₁ [*]	2 : 5
B8(K)	1	0	1	-2751	-104477	0	4	-	16, 7	16, 1	16, 4	I ₁₆ , I ₁ [*]	2 : 5
C1(C)	0	1	1	2	4	0	5	-	5, 2	5, 0	5, 1	I ₅ , II	5 : 2
C2(D)	0	1	1	-208	-1256	0	1	-	1, 10	1, 0	1, 1	I ₁ , II [*]	5 : 1

76 **76**
 $N = 76 = 2^2 \cdot 19$ (1 isogeny class)

A1(A)	0	-1	0	-21	-31	0	1	-	8, 1	0, 1	1, 1	IV [*] , I ₁	
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77 **77**
 $N = 77 = 7 \cdot 11$ (3 isogeny classes)

A1(F)	0	0	1	2	0	1	1	-	2, 1	2, 1	2, 1	I ₂ , I ₁	
B1(D)	0	1	1	-49	600	0	3	-	6, 3	6, 3	6, 1	I ₆ , I ₃	3 : 2, 3
B2(E)	0	1	1	441	-15815	0	1	-	2, 9	2, 9	2, 1	I ₂ , I ₉	3 : 1
B3(C)	0	1	1	-89	295	0	3	-	2, 1	2, 1	2, 1	I ₂ , I ₁	3 : 1
C1(A)	1	1	0	4	11	0	2	-	3, 2	3, 2	1, 2	I ₃ , I ₂	2 : 2
C2(B)	1	1	0	-51	110	0	2	+	6, 1	6, 1	2, 1	I ₆ , I ₁	2 : 1

78 **78**
 $N = 78 = 2 \cdot 3 \cdot 13$ (1 isogeny class)

A1(A)	1	1	0	-19	685	0	2	-	16, 5, 1	16, 5, 1	2, 1, 1	I ₁₆ , I ₅ , I ₁	2 : 2
A2(B)	1	1	0	-1299	17325	0	4	+	8, 10, 2	8, 10, 2	2, 2, 2	I ₈ , I ₁₀ , I ₂	2 : 1, 3, 4
A3(C)	1	1	0	-2339	-15747	0	2	+	4, 20, 1	4, 20, 1	2, 2, 1	I ₄ , I ₂₀ , I ₁	2 : 2
A4(D)	1	1	0	-20739	1140957	0	4	+	4, 5, 4	4, 5, 4	2, 1, 4	I ₄ , I ₅ , I ₄	2 : 2

79 **79**
 $N = 79 = 79$ (1 isogeny class)

TABLE 1: ELLIPTIC CURVES 80A–90B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
80	$N = 80 = 2^4 \cdot 5$ (2 isogeny classes)												80
A1(F)	0	0	0	-7	6	0	4	+	8, 2	0, 2	2, 2	I_0^*, I_2	$2 : 2, 3, 4$
A2(E)	0	0	0	-2	-1	0	2	+	4, 1	0, 1	1, 1	II, I_1	$2 : 1$
A3(H)	0	0	0	-107	426	0	4	+	10, 1	0, 1	4, 1	I_2^*, I_1	$2 : 1$
A4(G)	0	0	0	13	34	0	4	-	10, 4	0, 4	2, 4	I_2^*, I_4	$2 : 1$
B1(B)	0	-1	0	4	-4	0	2	-	8, 2	0, 2	1, 2	I_0^*, I_2	$2 : 2; 3 : 3$
B2(A)	0	-1	0	-1	0	0	2	+	4, 1	0, 1	1, 1	II, I_1	$2 : 1; 3 : 4$
B3(D)	0	-1	0	-36	140	0	2	-	8, 6	0, 6	1, 2	I_0^*, I_6	$2 : 4; 3 : 1$
B4(C)	0	-1	0	-41	116	0	2	+	4, 3	0, 3	1, 1	II, I_3	$2 : 3; 3 : 2$
82	$N = 82 = 2 \cdot 41$ (1 isogeny class)												82
A1(A)	1	0	1	-2	0	1	2	+	2, 1	2, 1	2, 1	I_2, I_1	$2 : 2$
A2(B)	1	0	1	-12	-16	1	2	+	1, 2	1, 2	1, 2	I_1, I_2	$2 : 1$
83	$N = 83 = 83$ (1 isogeny class)												83
A1(A)	1	1	1	1	0	1	1	-	1	1	1	I_1	
84	$N = 84 = 2^2 \cdot 3 \cdot 7$ (2 isogeny classes)												84
A1(C)	0	1	0	7	0	0	6	-	4, 3, 2	0, 3, 2	3, 3, 2	IV, I_3, I_2	$2 : 2; 3 : 3$
A2(D)	0	1	0	-28	-28	0	6	+	8, 6, 1	0, 6, 1	3, 6, 1	IV^*, I_6, I_1	$2 : 1; 3 : 4$
A3(E)	0	1	0	-113	-516	0	2	-	4, 1, 6	0, 1, 6	1, 1, 6	IV, I_1, I_6	$2 : 4; 3 : 1$
A4(F)	0	1	0	-1828	-30700	0	2	+	8, 2, 3	0, 2, 3	1, 2, 3	IV^*, I_2, I_3	$2 : 3; 3 : 2$
B1(A)	0	-1	0	-1	-2	0	2	-	4, 1, 2	0, 1, 2	1, 1, 2	IV, I_1, I_2	$2 : 2$
B2(B)	0	-1	0	-36	-72	0	2	+	8, 2, 1	0, 2, 1	1, 2, 1	IV^*, I_2, I_1	$2 : 1$
85	$N = 85 = 5 \cdot 17$ (1 isogeny class)												85
A1(A)	1	1	0	-8	-13	0	2	+	2, 1	2, 1	2, 1	I_2, I_1	$2 : 2$
A2(B)	1	1	0	-3	-22	0	2	-	4, 2	4, 2	2, 2	I_4, I_2	$2 : 1$
88	$N = 88 = 2^3 \cdot 11$ (1 isogeny class)												88
A1(A)	0	0	0	-4	4	1	1	-	8, 1	0, 1	4, 1	I_1^*, I_1	
89	$N = 89 = 89$ (2 isogeny classes)												89
A1(C)	1	1	1	-1	0	1	1	-	1	1	1	I_1	
B1(A)	1	1	0	4	5	0	2	-	2	2	2	I_2	$2 : 2$
B2(B)	1	1	0	-1	0	0	2	+	1	1	1	I_1	$2 : 1$
90	$N = 90 = 2 \cdot 3^2 \cdot 5$ (3 isogeny classes)												90
A1(M)	1	-1	0	6	0	0	6	-	2, 3, 3	2, 0, 3	2, 2, 3	I_2, III, I_3	$2 : 2; 3 : 3$
A2(N)	1	-1	0	-24	18	0	6	+	1, 3, 6	1, 0, 6	1, 2, 6	I_1, III, I_6	$2 : 1; 3 : 4$
A3(O)	1	-1	0	-69	-235	0	2	-	6, 9, 1	6, 0, 1	2, 2, 1	I_6, III^*, I_1	$2 : 4; 3 : 1$
A4(P)	1	-1	0	-1149	-14707	0	2	+	3, 9, 2	3, 0, 2	1, 2, 2	I_3, III^*, I_2	$2 : 3; 3 : 2$
B1(A)	1	-1	1	-8	11	0	6	-	6, 3, 1	6, 0, 1	6, 2, 1	I_6, III, I_1	$2 : 2; 3 : 3$
B2(B)	1	-1	1	-128	587	0	6	+	3, 3, 2	3, 0, 2	3, 2, 2	I_3, III, I_2	$2 : 1; 3 : 4$
B3(C)	1	-1	1	52	-53	0	2	-	2, 9, 3	2, 0, 3	2, 2, 1	I_2, III^*, I_2	$2 : 4; 3 : 1$

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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90 **90**
 $N = 90 = 2 \cdot 3^2 \cdot 5$ (continued)

C1(E)	1	-1	1	13	-61	0	4	-	4, 9, 1	4, 3, 1	4, 4, 1	I_4, I_3^*, I_1	2 : 2; 3 : 3
C2(F)	1	-1	1	-167	-709	0	4	+	2, 12, 2	2, 6, 2	2, 4, 2	I_2, I_6^*, I_2	2 : 1, 4, 5; 3 : 6
C3(G)	1	-1	1	-122	1721	0	12	-	12, 7, 3	12, 1, 3	12, 4, 3	I_{12}, I_1^*, I_3	2 : 6; 3 : 1
C4(I)	1	-1	1	-2597	-50281	0	2	+	1, 9, 4	1, 3, 4	1, 2, 4	I_1, I_3^*, I_4	2 : 2; 3 : 7
C5(H)	1	-1	1	-617	5231	0	2	+	1, 18, 1	1, 12, 1	1, 4, 1	I_1, I_{12}^*, I_1	2 : 2; 3 : 8
C6(J)	1	-1	1	-3002	63929	0	12	+	6, 8, 6	6, 2, 6	6, 4, 6	I_6, I_2^*, I_6	2 : 3, 7, 8; 3 : 2
C7(L)	1	-1	1	-4082	14681	0	6	+	3, 7, 12	3, 1, 12	3, 2, 12	I_3, I_1^*, I_{12}	2 : 6; 3 : 4
C8(K)	1	-1	1	-48002	4059929	0	6	+	3, 10, 3	3, 4, 3	3, 4, 3	I_3, I_4^*, I_3	2 : 6; 3 : 5

91 **91**
 $N = 91 = 7 \cdot 13$ (2 isogeny classes)

A1(A)	0	0	1	1	0	1	1	-	1, 1	1, 1	1, 1	I_1, I_1	
B1(B)	0	1	1	-7	5	1	3	-	1, 1	1, 1	1, 1	I_1, I_1	3 : 2
B2(C)	0	1	1	13	42	1	3	-	3, 3	3, 3	3, 3	I_3, I_3	3 : 1, 3
B3(D)	0	1	1	-117	-1245	1	1	-	9, 1	9, 1	9, 1	I_9, I_1	3 : 2

92 **92**
 $N = 92 = 2^2 \cdot 23$ (2 isogeny classes)

A1(A)	0	1	0	2	1	0	3	-	4, 1	0, 1	3, 1	IV, I_1	3 : 2
A2(B)	0	1	0	-18	-43	0	1	-	4, 3	0, 3	1, 1	IV, I_3	3 : 1
B1(C)	0	0	0	-1	1	1	1	-	4, 1	0, 1	3, 1	IV, I_1	

94 **94**
 $N = 94 = 2 \cdot 47$ (1 isogeny class)

A1(A)	1	-1	1	0	-1	0	2	-	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
A2(B)	1	-1	1	-10	-9	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 1

96 **96**
 $N = 96 = 2^5 \cdot 3$ (2 isogeny classes)

A1(E)	0	1	0	-2	0	0	4	+	6, 2	0, 2	2, 2	III, I_2	2 : 2, 3, 4
A2(F)	0	1	0	-17	-33	0	2	+	12, 1	0, 1	2, 1	I_3^*, I_1	2 : 1
A3(H)	0	1	0	-32	60	0	2	+	9, 1	0, 1	1, 1	I_0^*, I_1	2 : 1
A4(G)	0	1	0	8	8	0	4	-	9, 4	0, 4	2, 4	I_0^*, I_4	2 : 1
B1(A)	0	-1	0	-2	0	0	4	+	6, 2	0, 2	2, 2	III, I_2	2 : 2, 3, 4
B2(D)	0	-1	0	-32	-60	0	2	+	9, 1	0, 1	2, 1	I_0^*, I_1	2 : 1
B3(B)	0	-1	0	-17	33	0	4	+	12, 1	0, 1	4, 1	I_3^*, I_1	2 : 1
B4(C)	0	-1	0	8	-8	0	2	-	9, 4	0, 4	1, 2	I_0^*, I_4	2 : 1

98 **98**
 $N = 98 = 2 \cdot 7^2$ (1 isogeny class)

A1(B)	1	1	0	-25	-111	0	2	-	2, 7	2, 1	2, 2	I_2, I_1^*	2 : 2; 3 : 3
A2(A)	1	1	0	-515	-4717	0	2	+	1, 8	1, 2	1, 4	I_1, I_2^*	2 : 1; 3 : 4
A3(D)	1	1	0	220	2192	0	2	-	6, 9	6, 3	2, 2	I_6, I_3^*	2 : 4; 3 : 1, 5
A4(C)	1	1	0	-1740	22184	0	2	+	3, 12	3, 6	1, 4	I_3, I_6^*	2 : 3; 3 : 2, 6
A5(F)	1	1	0	-8355	291341	0	2	-	18, 7	18, 1	2, 2	I_{18}, I_1^*	2 : 6; 3 : 3
A6(E)	1	1	0	-133795	18781197	0	2	+	9, 8	9, 2	1, 4	I_9, I_2^*	2 : 5; 3 : 4

99 **99**
 $N = 99 = 3^2 \cdot 11$ (4 isogeny classes)

A1(A)	1	-1	1	-2	0	1	2	+	3, 1	0, 1	2, 1	III, I_1	2 : 2
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TABLE 1: ELLIPTIC CURVES 99B–106B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
99 $N = 99 = 3^2 \cdot 11$ (continued) 99													
B1(H)	1	-1	1	-59	186	0	4	+	9, 1	3, 1	4, 1	I_3^*, I_1	2 : 2
B2(I)	1	-1	1	-104	-102	0	4	+	12, 2	6, 2	4, 2	I_6^*, I_2	2 : 1, 3, 4
B3(K)	1	-1	1	-1319	-18084	0	2	+	9, 4	3, 4	2, 2	I_3^*, I_4	2 : 2
B4(J)	1	-1	1	391	-1092	0	2	-	18, 1	12, 1	4, 1	I_{12}^*, I_1	2 : 2
C1(F)	1	-1	0	-15	8	0	2	+	9, 1	0, 1	2, 1	III^*, I_1	2 : 2
C2(G)	1	-1	0	-150	-667	0	2	+	9, 2	0, 2	2, 2	III^*, I_2	2 : 1
D1(C)	0	0	1	-3	-5	0	1	-	6, 1	0, 1	1, 1	I_0^*, I_1	5 : 2
D2(D)	0	0	1	-93	625	0	1	-	6, 5	0, 5	1, 1	I_0^*, I_5	5 : 1, 3
D3(E)	0	0	1	-70383	7187035	0	1	-	6, 1	0, 1	1, 1	I_0^*, I_1	5 : 2
100 $N = 100 = 2^2 \cdot 5^2$ (1 isogeny class) 100													
A1(A)	0	-1	0	-33	62	0	2	+	4, 7	0, 1	1, 2	IV, I_1^*	2 : 2; 3 : 3
A2(B)	0	-1	0	92	312	0	2	-	8, 8	0, 2	1, 4	IV^*, I_2^*	2 : 1; 3 : 4
A3(C)	0	-1	0	-1033	-12438	0	2	+	4, 9	0, 3	3, 2	IV, I_3^*	2 : 4; 3 : 1
A4(D)	0	-1	0	-908	-15688	0	2	-	8, 12	0, 6	3, 4	IV^*, I_6^*	2 : 3; 3 : 2
101 $N = 101 = 101$ (1 isogeny class) 101													
A1(A)	0	1	1	-1	-1	1	1	+	1	1	1	I_1	
102 $N = 102 = 2 \cdot 3 \cdot 17$ (3 isogeny classes) 102													
A1(E)	1	1	0	-2	0	1	2	+	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	2 : 2
A2(F)	1	1	0	8	10	1	2	-	1, 4, 2	1, 4, 2	1, 2, 2	I_1, I_4, I_2	2 : 1
B1(G)	1	0	0	-34	68	0	8	+	8, 4, 1	8, 4, 1	8, 4, 1	I_8, I_4, I_1	2 : 2
B2(H)	1	0	0	-114	-396	0	8	+	4, 8, 2	4, 8, 2	4, 8, 2	I_4, I_8, I_2	2 : 1, 3, 4
B3(J)	1	0	0	-1734	-27936	0	4	+	2, 4, 4	2, 4, 4	2, 4, 4	I_2, I_4, I_4	2 : 2, 5, 6
B4(I)	1	0	0	226	-2232	0	4	-	2, 16, 1	2, 16, 1	2, 16, 1	I_2, I_{16}, I_1	2 : 2
B5(L)	1	0	0	-27744	-1781010	0	2	+	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 3
B6(K)	1	0	0	-1644	-30942	0	2	-	1, 2, 8	1, 2, 8	1, 2, 8	I_1, I_2, I_8	2 : 3
C1(A)	1	0	1	-256	1550	0	6	+	6, 6, 1	6, 6, 1	2, 6, 1	I_6, I_6, I_1	2 : 2; 3 : 3
C2(B)	1	0	1	-216	2062	0	6	-	3, 12, 2	3, 12, 2	1, 12, 2	I_3, I_{12}, I_2	2 : 1; 3 : 4
C3(C)	1	0	1	-751	-6046	0	2	+	18, 2, 3	18, 2, 3	2, 2, 1	I_{18}, I_2, I_3	2 : 4; 3 : 1
C4(D)	1	0	1	1809	-37790	0	2	-	9, 4, 6	9, 4, 6	1, 4, 2	I_9, I_4, I_6	2 : 3; 3 : 2
104 $N = 104 = 2^3 \cdot 13$ (1 isogeny class) 104													
A1(A)	0	1	0	-16	-32	0	1	-	11, 1	0, 1	1, 1	II^*, I_1	
105 $N = 105 = 3 \cdot 5 \cdot 7$ (1 isogeny class) 105													
A1(A)	1	0	1	-3	1	0	2	+	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	2 : 2
A2(B)	1	0	1	-8	-7	0	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1, 3, 4
A3(D)	1	0	1	-113	-469	0	2	+	1, 4, 1	1, 4, 1	1, 4, 1	I_1, I_4, I_1	2 : 2
A4(C)	1	0	1	17	-37	0	4	-	4, 1, 4	4, 1, 4	4, 1, 4	I_4, I_1, I_4	2 : 2
106 $N = 106 = 2 \cdot 53$ (4 isogeny classes) 106													
A1(B)	1	0	0	1	1	0	3	-	3, 1	3, 1	3, 1	I_3, I_1	3 : 2
A2(C)	1	0	0	-9	-29	0	1	-	1, 3	1, 3	1, 1	I_1, I_3	3 : 1

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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106 **106**
 $N = 106 = 2 \cdot 53$ (continued)

C1(E)	1	0	0	-283	-2351	0	3	-	24, 1	24, 1	24, 1	I_{24}, I_1	3 : 2
C2(F)	1	0	0	-24603	-1487407	0	1	-	8, 3	8, 3	8, 1	I_8, I_3	3 : 1
D1(D)	1	1	0	-27	-67	0	1	-	5, 1	5, 1	1, 1	I_5, I_1	

108 **108**
 $N = 108 = 2^2 \cdot 3^3$ (1 isogeny class)

A1(A)	0	0	0	0	4	0	3	-	8, 3	0, 0	3, 1	IV^*, II	3 : 2
A2(B)	0	0	0	0	-108	0	1	-	8, 9	0, 0	1, 1	IV^*, IV^*	3 : 1

109 **109**
 $N = 109 = 109$ (1 isogeny class)

A1(A)	1	-1	0	-8	-7	0	1	-	1	1	1	I_1	
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110 **110**
 $N = 110 = 2 \cdot 5 \cdot 11$ (3 isogeny classes)

A1(C)	1	1	1	10	-45	0	5	-	5, 5, 1	5, 5, 1	5, 5, 1	I_5, I_5, I_1	5 : 2
A2(D)	1	1	1	-5940	-178685	0	1	-	1, 1, 5	1, 1, 5	1, 1, 5	I_1, I_1, I_5	5 : 1
B1(A)	1	0	0	-1	1	0	3	-	3, 1, 1	3, 1, 1	3, 1, 1	I_3, I_1, I_1	3 : 2
B2(B)	1	0	0	9	-25	0	1	-	1, 3, 3	1, 3, 3	1, 1, 1	I_1, I_3, I_3	3 : 1
C1(E)	1	0	1	-89	316	0	3	-	7, 1, 3	7, 1, 3	1, 1, 3	I_7, I_1, I_3	3 : 2
C2(F)	1	0	1	296	1702	0	1	-	21, 3, 1	21, 3, 1	1, 1, 1	I_{21}, I_3, I_1	3 : 1

112 **112**
 $N = 112 = 2^4 \cdot 7$ (3 isogeny classes)

A1(K)	0	1	0	0	4	1	2	-	10, 1	0, 1	4, 1	I_2^*, I_1	2 : 2
A2(L)	0	1	0	-40	84	1	2	+	11, 2	0, 2	4, 2	I_3^*, I_2	2 : 1
B1(A)	0	0	0	1	-2	0	2	-	8, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
B2(B)	0	0	0	-19	-30	0	4	+	10, 2	0, 2	4, 2	I_2^*, I_2	2 : 1, 3, 4
B3(D)	0	0	0	-299	-1990	0	2	+	11, 1	0, 1	4, 1	I_3^*, I_1	2 : 2
B4(C)	0	0	0	-59	138	0	4	+	11, 4	0, 4	2, 4	I_3^*, I_4	2 : 2
C1(E)	0	-1	0	-8	-16	0	2	-	14, 1	2, 1	4, 1	I_6^*, I_1	2 : 2; 3 : 3
C2(F)	0	-1	0	-168	-784	0	2	+	13, 2	1, 2	2, 2	I_5^*, I_2	2 : 1; 3 : 4
C3(G)	0	-1	0	72	368	0	2	-	18, 3	6, 3	4, 1	I_{10}^*, I_3	2 : 4; 3 : 1, 5
C4(H)	0	-1	0	-568	4464	0	2	+	15, 6	3, 6	2, 2	I_7^*, I_6	2 : 3; 3 : 2, 6
C5(I)	0	-1	0	-2728	55920	0	2	-	30, 1	18, 1	4, 1	I_{22}^*, I_1	2 : 6; 3 : 3
C6(J)	0	-1	0	-43688	3529328	0	2	+	21, 2	9, 2	2, 2	I_{13}^*, I_2	2 : 5; 3 : 4

113 **113**
 $N = 113 = 113$ (1 isogeny class)

A1(B)	1	1	1	3	-4	0	2	-	2	2	2	I_2	2 : 2
A2(A)	1	1	1	-2	-2	0	2	+	1	1	1	I_1	2 : 1

114 **114**
 $N = 114 = 2 \cdot 3 \cdot 19$ (3 isogeny classes)

A1(A)	1	0	0	-8	0	0	6	+	6, 3, 1	6, 3, 1	6, 3, 1	I_6, I_3, I_1	2 : 2; 3 : 3
A2(B)	1	0	0	32	8	0	6	-	3, 6, 2	3, 6, 2	3, 6, 2	I_3, I_6, I_2	2 : 1; 3 : 4
A3(C)	1	0	0	-428	-3444	0	2	+	2, 1, 3	2, 1, 3	2, 1, 3	I_2, I_1, I_3	2 : 4; 3 : 1
A4(D)	1	0	0	-418	-3610	0	2	-	1, 2, 6	1, 2, 6	1, 2, 6	I_1, I_2, I_6	2 : 3; 3 : 2
B1(E)	1	1	0	-95	-399	0	2	+	2, 5, 1	2, 5, 1	2, 1, 1	I_2, I_5, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 114C–121B

121

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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114 $N = 114 = 2 \cdot 3 \cdot 19$ (continued) **114**

C1(G)	1	1	1	-352	-2431	0	4	+	20, 3, 1	20, 3, 1	20, 1, 1	I_{20}, I_3, I_1	2 : 2
C2(H)	1	1	1	-5472	-158079	0	4	+	10, 6, 2	10, 6, 2	10, 2, 2	I_{10}, I_6, I_2	2 : 1, 3, 4
C3(J)	1	1	1	-87552	-10007679	0	2	+	5, 3, 1	5, 3, 1	5, 1, 1	I_5, I_3, I_1	2 : 2
C4(I)	1	1	1	-5312	-167551	0	2	-	5, 12, 4	5, 12, 4	5, 2, 2	I_5, I_{12}, I_4	2 : 2

115 $N = 115 = 5 \cdot 23$ (1 isogeny class) **115**

A1(A)	0	0	1	7	-11	0	1	-	5, 1	5, 1	1, 1	I_5, I_1	
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116 $N = 116 = 2^2 \cdot 29$ (3 isogeny classes) **116**

A1(E)	0	0	0	-4831	-129242	0	1	-	8, 1	0, 1	3, 1	IV^*, I_1	
B1(A)	0	1	0	-4	4	0	3	-	8, 1	0, 1	3, 1	IV^*, I_1	3 : 2
B2(B)	0	1	0	36	-76	0	1	-	8, 3	0, 3	1, 1	IV^*, I_3	3 : 1
C1(D)	0	-1	0	-4	24	0	2	-	8, 2	0, 2	1, 2	IV^*, I_2	2 : 2
C2(C)	0	-1	0	-9	14	0	2	+	4, 1	0, 1	1, 1	IV, I_1	2 : 1

117 $N = 117 = 3^2 \cdot 13$ (1 isogeny class) **117**

A1(A)	1	-1	1	4	6	1	4	-	7, 1	1, 1	4, 1	I_1^*, I_1	2 : 2
A2(B)	1	-1	1	-41	96	1	4	+	8, 2	2, 2	4, 2	I_2^*, I_2	2 : 1, 3, 4
A3(D)	1	-1	1	-176	-768	1	2	+	7, 4	1, 4	2, 4	I_1^*, I_4	2 : 2
A4(C)	1	-1	1	-626	6180	1	2	+	10, 1	4, 1	4, 1	I_4^*, I_1	2 : 2

118 $N = 118 = 2 \cdot 59$ (4 isogeny classes) **118**

A1(A)	1	1	0	1	1	1	1	-	2, 1	2, 1	2, 1	I_2, I_1	
B1(B)	1	1	1	-25	39	0	5	-	10, 1	10, 1	10, 1	I_{10}, I_1	5 : 2
B2(C)	1	1	1	115	-2481	0	1	-	2, 5	2, 5	2, 1	I_2, I_5	5 : 1
C1(D)	1	1	1	-4	-5	0	1	-	1, 1	1, 1	1, 1	I_1, I_1	
D1(E)	1	1	0	56	-192	0	1	-	19, 1	19, 1	1, 1	I_{19}, I_1	

120 $N = 120 = 2^3 \cdot 3 \cdot 5$ (2 isogeny classes) **120**

A1(E)	0	1	0	-15	18	0	4	+	4, 2, 1	0, 2, 1	2, 2, 1	III, I_2, I_1	2 : 2
A2(F)	0	1	0	-20	0	0	8	+	8, 4, 2	0, 4, 2	4, 4, 2	I_1^*, I_4, I_2	2 : 1, 3, 4
A3(H)	0	1	0	-200	-1152	0	4	+	10, 2, 4	0, 2, 4	2, 2, 4	III^*, I_2, I_4	2 : 2, 5, 6
A4(G)	0	1	0	80	80	0	4	-	10, 8, 1	0, 8, 1	2, 8, 1	III^*, I_8, I_1	2 : 2
A5(J)	0	1	0	-3200	-70752	0	2	+	11, 1, 2	0, 1, 2	1, 1, 2	II^*, I_1, I_2	2 : 3
A6(I)	0	1	0	-80	-2400	0	2	-	11, 1, 8	0, 1, 8	1, 1, 8	II^*, I_1, I_8	2 : 3
B1(A)	0	1	0	4	0	0	2	-	8, 1, 1	0, 1, 1	2, 1, 1	I_1^*, I_1, I_1	2 : 2
B2(B)	0	1	0	-16	-16	0	4	+	10, 2, 2	0, 2, 2	2, 2, 2	III^*, I_2, I_2	2 : 1, 3, 4
B3(C)	0	1	0	-216	-1296	0	2	+	11, 4, 1	0, 4, 1	1, 4, 1	II^*, I_4, I_1	2 : 2
B4(D)	0	1	0	-136	560	0	2	+	11, 1, 4	0, 1, 4	1, 1, 2	II^*, I_1, I_4	2 : 2

121 $N = 121 = 11^2$ (4 isogeny classes) **121**

A1(H)	1	1	1	-30	-76	0	1	-	2	0	1	II	11 : 2
A2(I)	1	1	1	-305	7888	0	1	-	10	0	1	II^*	11 : 1
B1(D)	0	-1	1	-7	10	1	1	-	3	0	2	III	11 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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121 **121**
 $N = 121 = 11^2$ (continued)

C1(F)	1	1	0	-2	-7	0	1	-	4	0	1	IV	11 : 2
C2(G)	1	1	0	-3632	82757	0	1	-	8	0	1	IV*	11 : 1
D1(A)	0	-1	1	-40	-221	0	1	-	7	1	2	I ₁ *	5 : 2
D2(B)	0	-1	1	-1250	31239	0	1	-	11	5	2	I ₅ *	5 : 1, 3
D3(C)	0	-1	1	-946260	354609639	0	1	-	7	1	2	I ₁ *	5 : 2

122 **122**
 $N = 122 = 2 \cdot 61$ (1 isogeny class)

A1(A)	1	0	1	2	0	1	1	-	4, 1	4, 1	2, 1	I ₄ , I ₁	
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123 **123**
 $N = 123 = 3 \cdot 41$ (2 isogeny classes)

A1(A)	0	1	1	-10	10	1	5	-	5, 1	5, 1	5, 1	I ₅ , I ₁	5 : 2
A2(B)	0	1	1	20	-890	1	1	-	1, 5	1, 5	1, 5	I ₁ , I ₅	5 : 1
B1(C)	0	-1	1	1	-1	1	1	-	1, 1	1, 1	1, 1	I ₁ , I ₁	

124 **124**
 $N = 124 = 2^2 \cdot 31$ (2 isogeny classes)

A1(B)	0	1	0	-2	1	1	3	-	4, 1	0, 1	3, 1	IV, I ₁	3 : 2
A2(C)	0	1	0	18	-11	1	1	-	4, 3	0, 3	1, 3	IV, I ₃	3 : 1
B1(A)	0	0	0	-17	-27	0	1	-	4, 1	0, 1	1, 1	IV, I ₁	

126 **126**
 $N = 126 = 2 \cdot 3^2 \cdot 7$ (2 isogeny classes)

A1(A)	1	-1	1	-5	-7	0	2	-	2, 6, 1	2, 0, 1	2, 2, 1	I ₂ , I ₀ *, I ₁	2 : 2; 3 : 3
A2(B)	1	-1	1	-95	-331	0	2	+	1, 6, 2	1, 0, 2	1, 2, 2	I ₁ , I ₀ *, I ₂	2 : 1; 3 : 4
A3(C)	1	-1	1	40	155	0	6	-	6, 6, 3	6, 0, 3	6, 2, 3	I ₆ , I ₀ *, I ₃	2 : 4; 3 : 1, 5
A4(D)	1	-1	1	-320	1883	0	6	+	3, 6, 6	3, 0, 6	3, 2, 6	I ₃ , I ₀ *, I ₆	2 : 3; 3 : 2, 6
A5(E)	1	-1	1	-1535	23591	0	6	-	18, 6, 1	18, 0, 1	18, 2, 1	I ₁₈ , I ₀ *, I ₁	2 : 6; 3 : 3
A6(F)	1	-1	1	-24575	1488935	0	6	+	9, 6, 2	9, 0, 2	9, 2, 2	I ₉ , I ₀ *, I ₂	2 : 5; 3 : 4
B1(G)	1	-1	0	-36	-176	0	2	-	8, 8, 1	8, 2, 1	2, 2, 1	I ₈ , I ₂ *, I ₁	2 : 2
B2(H)	1	-1	0	-756	-7808	0	4	+	4, 10, 2	4, 4, 2	2, 4, 2	I ₄ , I ₄ *, I ₂	2 : 1, 3, 4
B3(J)	1	-1	0	-12096	-509036	0	2	+	2, 8, 1	2, 2, 1	2, 4, 1	I ₂ , I ₂ *, I ₁	2 : 2
B4(I)	1	-1	0	-936	-3668	0	4	+	2, 14, 4	2, 8, 4	2, 4, 2	I ₂ , I ₈ *, I ₄	2 : 2, 5, 6
B5(L)	1	-1	0	-8226	286474	0	2	+	1, 10, 8	1, 4, 8	1, 2, 2	I ₁ , I ₄ *, I ₈	2 : 4
B6(K)	1	-1	0	3474	-31010	0	2	-	1, 22, 2	1, 16, 2	1, 4, 2	I ₁ , I ₁₆ *, I ₂	2 : 4

128 **128**
 $N = 128 = 2^7$ (4 isogeny classes)

A1(C)	0	1	0	1	1	1	2	-	8	0	2	III	2 : 2
A2(D)	0	1	0	-9	7	1	2	+	13	0	4	I ₂ *	2 : 1
B1(F)	0	1	0	3	-5	0	2	-	14	0	2	III*	2 : 2
B2(E)	0	1	0	-2	-2	0	2	+	7	0	1	II	2 : 1
C1(A)	0	-1	0	1	-1	0	2	-	8	0	2	III	2 : 2
C2(B)	0	-1	0	-9	-7	0	2	+	13	0	2	I ₂ *	2 : 1
D1(G)	0	-1	0	3	5	0	2	-	14	0	2	III*	2 : 2
D2(H)	0	-1	0	-2	2	0	2	+	7	0	1	II	2 : 1

129 **129**
 $N = 129 = 3 \cdot 43$ (2 isogeny classes)

TABLE 1: ELLIPTIC CURVES 129B–138C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
129	$N = 129 = 3 \cdot 43$ (continued)												129
B1(B)	1	0	1	-30	-29	0	4	+	6, 2	6, 2	6, 2	I_6, I_2	$2 : 2, 3, 4$
B2(A)	1	0	1	-25	-49	0	2	+	3, 1	3, 1	3, 1	I_3, I_1	$2 : 1$
B3(C)	1	0	1	-245	1433	0	4	+	12, 1	12, 1	12, 1	I_{12}, I_1	$2 : 1$
B4(D)	1	0	1	105	-191	0	2	-	3, 4	3, 4	3, 2	I_3, I_4	$2 : 1$
130	$N = 130 = 2 \cdot 5 \cdot 13$ (3 isogeny classes)												130
A1(E)	1	0	1	-33	68	1	6	+	4, 3, 1	4, 3, 1	2, 3, 1	I_4, I_3, I_1	$2 : 2; 3 : 3$
A2(F)	1	0	1	-13	156	1	6	-	2, 6, 2	2, 6, 2	2, 6, 2	I_2, I_6, I_2	$2 : 1; 3 : 4$
A3(G)	1	0	1	-208	-1122	1	2	+	12, 1, 3	12, 1, 3	2, 1, 3	I_{12}, I_1, I_3	$2 : 4; 3 : 1$
A4(H)	1	0	1	112	-4194	1	2	-	6, 2, 6	6, 2, 6	2, 2, 6	I_6, I_2, I_6	$2 : 3; 3 : 2$
B1(A)	1	-1	1	-7	-1	0	4	+	8, 1, 1	8, 1, 1	8, 1, 1	I_8, I_1, I_1	$2 : 2$
B2(B)	1	-1	1	-87	-289	0	4	+	4, 2, 2	4, 2, 2	4, 2, 2	I_4, I_2, I_2	$2 : 1, 3, 4$
B3(D)	1	-1	1	-1387	-19529	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	$2 : 2$
B4(C)	1	-1	1	-67	-441	0	4	-	2, 4, 4	2, 4, 4	2, 4, 4	I_2, I_4, I_4	$2 : 2$
C1(J)	1	1	1	-841	-9737	0	2	+	8, 5, 1	8, 5, 1	8, 1, 1	I_8, I_5, I_1	$2 : 2$
C2(I)	1	1	1	-761	-11561	0	2	-	4, 10, 2	4, 10, 2	4, 2, 2	I_4, I_{10}, I_2	$2 : 1$
131	$N = 131 = 131$ (1 isogeny class)												131
A1(A)	0	-1	1	1	0	1	1	-	1	1	1	I_1	
132	$N = 132 = 2^2 \cdot 3 \cdot 11$ (2 isogeny classes)												132
A1(A)	0	1	0	3	0	0	2	-	4, 2, 1	0, 2, 1	1, 2, 1	IV, I_2, I_1	$2 : 2$
A2(B)	0	1	0	-12	-12	0	2	+	8, 1, 2	0, 1, 2	1, 1, 2	IV^*, I_1, I_2	$2 : 1$
B1(C)	0	-1	0	-77	330	0	2	-	4, 10, 1	0, 10, 1	1, 2, 1	IV, I_{10}, I_1	$2 : 2$
B2(D)	0	-1	0	-1292	18312	0	2	+	8, 5, 2	0, 5, 2	1, 1, 2	IV^*, I_5, I_2	$2 : 1$
135	$N = 135 = 3^3 \cdot 5$ (2 isogeny classes)												135
A1(A)	0	0	1	-3	4	1	1	-	5, 2	0, 2	3, 2	IV, I_2	
B1(B)	0	0	1	-27	-115	0	1	-	11, 2	0, 2	1, 2	II^*, I_2	
136	$N = 136 = 2^3 \cdot 17$ (2 isogeny classes)												136
A1(A)	0	1	0	-4	0	1	2	+	8, 1	0, 1	4, 1	I_1^*, I_1	$2 : 2$
A2(B)	0	1	0	16	16	1	2	-	10, 2	0, 2	2, 2	III^*, I_2	$2 : 1$
B1(C)	0	-1	0	-8	-4	0	2	+	10, 1	0, 1	2, 1	III^*, I_1	$2 : 2$
B2(D)	0	-1	0	-48	140	0	2	+	11, 2	0, 2	1, 2	II^*, I_2	$2 : 1$
138	$N = 138 = 2 \cdot 3 \cdot 23$ (3 isogeny classes)												138
A1(E)	1	1	0	-1	1	1	2	-	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	$2 : 2$
A2(F)	1	1	0	-31	55	1	2	+	1, 1, 2	1, 1, 2	1, 1, 2	I_1, I_1, I_2	$2 : 1$
B1(G)	1	0	1	-36	82	0	6	-	4, 6, 1	4, 6, 1	2, 6, 1	I_4, I_6, I_1	$2 : 2; 3 : 3$
B2(H)	1	0	1	-576	5266	0	6	+	2, 3, 2	2, 3, 2	2, 3, 2	I_2, I_3, I_2	$2 : 1; 3 : 4$
B3(I)	1	0	1	189	190	0	2	-	12, 2, 3	12, 2, 3	2, 2, 1	I_{12}, I_2, I_3	$2 : 4; 3 : 1$
B4(J)	1	0	1	-771	1342	0	2	+	6, 1, 6	6, 1, 6	2, 1, 2	I_6, I_1, I_6	$2 : 3; 3 : 2$
C1(A)	1	1	1	3	3	0	4	-	4, 2, 1	4, 2, 1	4, 2, 1	I_4, I_2, I_1	$2 : 2$
C2(B)	1	1	1	-17	11	0	4	+	2, 4, 2	2, 4, 2	2, 2, 2	I_2, I_4, I_2	$2 : 1, 3, 4$
C3(D)	1	1	1	-107	-457	0	2	+	1, 2, 4	1, 2, 4	1, 2, 2	I_1, I_2, I_4	$2 : 2$

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
139	$N = 139 = 139$ (1 isogeny class)												139
A1(A)	1	1	0	-3	-4	0	1	-	1	1	1	I_1	
140	$N = 140 = 2^2 \cdot 5 \cdot 7$ (2 isogeny classes)												140
A1(A)	0	1	0	-5	-25	0	3	-	8, 3, 1	0, 3, 1	3, 3, 1	IV^*, I_3, I_1	3 : 2
A2(B)	0	1	0	-805	-9065	0	1	-	8, 1, 3	0, 1, 3	1, 1, 3	IV^*, I_1, I_3	3 : 1
B1(C)	0	0	0	32	212	0	1	-	8, 1, 5	0, 1, 5	1, 1, 1	IV^*, I_1, I_5	
141	$N = 141 = 3 \cdot 47$ (5 isogeny classes)												141
A1(E)	0	1	1	-12	2	1	1	+	7, 1	7, 1	7, 1	I_7, I_1	
B1(G)	1	1	1	-8	-16	0	2	-	6, 1	6, 1	2, 1	I_6, I_1	2 : 2
B2(F)	1	1	1	-143	-718	0	2	+	3, 2	3, 2	1, 2	I_3, I_2	2 : 1
C1(A)	1	0	0	-2	3	0	4	-	4, 1	4, 1	4, 1	I_4, I_1	2 : 2
C2(B)	1	0	0	-47	120	0	4	+	2, 2	2, 2	2, 2	I_2, I_2	2 : 1, 3, 4
C3(C)	1	0	0	-62	33	0	2	+	1, 4	1, 4	1, 2	I_1, I_4	2 : 2
C4(D)	1	0	0	-752	7875	0	2	+	1, 1	1, 1	1, 1	I_1, I_1	2 : 2
D1(I)	0	-1	1	-1	0	1	1	+	1, 1	1, 1	1, 1	I_1, I_1	
E1(H)	0	1	1	-26	-61	0	1	+	1, 1	1, 1	1, 1	I_1, I_1	
142	$N = 142 = 2 \cdot 71$ (5 isogeny classes)												142
A1(F)	1	-1	1	-12	15	1	1	+	9, 1	9, 1	9, 1	I_9, I_1	
B1(E)	1	1	0	-1	-1	1	1	+	1, 1	1, 1	1, 1	I_1, I_1	
C1(A)	1	-1	0	-1	-3	0	2	-	6, 1	6, 1	2, 1	I_6, I_1	2 : 2
C2(B)	1	-1	0	-41	-91	0	2	+	3, 2	3, 2	1, 2	I_3, I_2	2 : 1
D1(C)	1	0	0	-8	8	0	3	+	3, 1	3, 1	3, 1	I_3, I_1	3 : 2
D2(D)	1	0	0	-58	-170	0	1	+	1, 3	1, 3	1, 1	I_1, I_3	3 : 1
E1(G)	1	-1	0	-2626	52244	0	1	+	27, 1	27, 1	1, 1	I_{27}, I_1	
143	$N = 143 = 11 \cdot 13$ (1 isogeny class)												143
A1(A)	0	-1	1	-1	-2	1	1	-	1, 2	1, 2	1, 2	I_1, I_2	
144	$N = 144 = 2^4 \cdot 3^2$ (2 isogeny classes)												144
A1(A)	0	0	0	0	-1	0	2	-	4, 3	0, 0	1, 2	II, III	2 : 2; 3 : 3
A2(B)	0	0	0	-15	-22	0	2	+	8, 3	0, 0	1, 2	I_0^*, III	2 : 1; 3 : 4
A3(C)	0	0	0	0	27	0	2	-	4, 9	0, 0	1, 2	II, III^*	2 : 4; 3 : 1
A4(D)	0	0	0	-135	594	0	2	+	8, 9	0, 0	1, 2	I_0^*, III^*	2 : 3; 3 : 2
B1(E)	0	0	0	6	7	0	2	-	4, 7	0, 1	1, 2	II, I_1^*	2 : 2
B2(F)	0	0	0	-39	70	0	4	+	8, 8	0, 2	2, 4	I_0^*, I_2^*	2 : 1, 3, 4
B3(G)	0	0	0	-219	-1190	0	4	+	10, 10	0, 4	4, 4	I_2^*, I_4^*	2 : 2, 5, 6
B4(H)	0	0	0	-579	5362	0	4	+	10, 7	0, 1	2, 4	I_2^*, I_1^*	2 : 2
B5(J)	0	0	0	-3459	-78302	0	2	+	11, 8	0, 2	4, 2	I_3^*, I_2^*	2 : 3
B6(I)	0	0	0	141	-4718	0	2	-	11, 14	0, 8	2, 4	I_3^*, I_8^*	2 : 3
145	$N = 145 = 5 \cdot 29$ (1 isogeny class)												145
A1(A)	1	-1	1	-3	2	1	2	+	1, 1	1, 1	1, 1	I_1, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 147A–153D

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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147 $N = 147 = 3 \cdot 7^2$ (3 isogeny classes) **147**

A1(C)	1	1	1	48	48	0	4	−	2, 7	2, 1	2, 4	I_2, I_1^*	2 : 2
A2(D)	1	1	1	−197	146	0	4	+	4, 8	4, 2	2, 4	I_4, I_2^*	2 : 1, 3, 4
A3(E)	1	1	1	−1912	−32782	0	2	+	8, 7	8, 1	2, 2	I_8, I_1^*	2 : 2
A4(F)	1	1	1	−2402	44246	0	4	+	2, 10	2, 4	2, 4	I_2, I_4^*	2 : 2, 5, 6
A5(H)	1	1	1	−38417	2882228	0	2	+	1, 8	1, 2	1, 2	I_1, I_2^*	2 : 4
A6(G)	1	1	1	−1667	72764	0	2	−	1, 14	1, 8	1, 4	I_1, I_8^*	2 : 4
B1(I)	0	1	1	−114	473	0	1	−	1, 8	1, 0	1, 1	I_1, IV^*	13 : 2
B2(J)	0	1	1	−44704	−3655907	0	1	−	13, 8	13, 0	13, 1	I_{13}, IV^*	13 : 1
C1(A)	0	−1	1	−2	−1	0	1	−	1, 2	1, 0	1, 1	I_1, II	13 : 2
C2(B)	0	−1	1	−912	10919	0	1	−	13, 2	13, 0	1, 1	I_{13}, II	13 : 1

148 $N = 148 = 2^2 \cdot 37$ (1 isogeny class) **148**

A1(A)	0	−1	0	−5	1	1	1	+	8, 1	0, 1	3, 1	IV^*, I_1	
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150 $N = 150 = 2 \cdot 3 \cdot 5^2$ (3 isogeny classes) **150**

A1(A)	1	0	0	−3	−3	0	2	−	2, 1, 3	2, 1, 0	2, 1, 2	I_2, I_1, III	2 : 2; 5 : 3
A2(B)	1	0	0	−53	−153	0	2	+	1, 2, 3	1, 2, 0	1, 2, 2	I_1, I_2, III	2 : 1; 5 : 4
A3(C)	1	0	0	−28	272	0	10	−	10, 5, 3	10, 5, 0	10, 5, 2	I_{10}, I_5, III	2 : 4; 5 : 1
A4(D)	1	0	0	−828	9072	0	10	+	5, 10, 3	5, 10, 0	5, 10, 2	I_5, I_{10}, III	2 : 3; 5 : 2
B1(G)	1	1	0	−75	−375	0	2	−	2, 1, 9	2, 1, 0	2, 1, 2	I_2, I_1, III^*	2 : 2; 5 : 3
B2(H)	1	1	0	−1325	−19125	0	2	+	1, 2, 9	1, 2, 0	1, 2, 2	I_1, I_2, III^*	2 : 1; 5 : 4
B3(E)	1	1	0	−700	34000	0	2	−	10, 5, 9	10, 5, 0	2, 1, 2	I_{10}, I_5, III^*	2 : 4; 5 : 1
B4(F)	1	1	0	−20700	1134000	0	2	+	5, 10, 9	5, 10, 0	1, 2, 2	I_5, I_{10}, III^*	2 : 3; 5 : 2
C1(I)	1	1	1	37	281	0	4	−	4, 3, 7	4, 3, 1	4, 1, 4	I_4, I_3, I_1^*	2 : 2; 3 : 3
C2(J)	1	1	1	−463	3281	0	4	+	2, 6, 8	2, 6, 2	2, 2, 4	I_2, I_6, I_2^*	2 : 1, 4, 5; 3 : 6
C3(K)	1	1	1	−338	−7969	0	4	−	12, 1, 9	12, 1, 3	12, 1, 4	I_{12}, I_1, I_3^*	2 : 6; 3 : 1
C4(L)	1	1	1	−1713	−24219	0	2	+	1, 12, 7	1, 12, 1	1, 2, 4	I_1, I_{12}, I_1^*	2 : 2; 3 : 7
C5(M)	1	1	1	−7213	232781	0	2	+	1, 3, 10	1, 3, 4	1, 1, 4	I_1, I_3, I_4^*	2 : 2; 3 : 8
C6(N)	1	1	1	−8338	−295969	0	4	+	6, 2, 12	6, 2, 6	6, 2, 4	I_6, I_2, I_6^*	2 : 3, 7, 8; 3 : 2
C7(O)	1	1	1	−133338	−18795969	0	2	+	3, 4, 9	3, 4, 3	3, 2, 4	I_3, I_4, I_3^*	2 : 6; 3 : 4
C8(P)	1	1	1	−11338	−67969	0	2	+	3, 1, 18	3, 1, 12	3, 1, 4	I_3, I_1, I_{12}^*	2 : 6; 3 : 5

152 $N = 152 = 2^3 \cdot 19$ (2 isogeny classes) **152**

A1(A)	0	1	0	−1	3	1	1	−	8, 1	0, 1	4, 1	I_1^*, I_1	
B1(B)	0	1	0	−8	−16	0	1	−	11, 1	0, 1	1, 1	II^*, I_1	

153 $N = 153 = 3^2 \cdot 17$ (4 isogeny classes) **153**

A1(C)	0	0	1	−3	2	1	1	−	3, 1	0, 1	2, 1	III, I_1	
B1(A)	0	0	1	6	27	1	1	−	9, 1	3, 1	4, 1	I_3^*, I_1	3 : 2
B2(B)	0	0	1	−534	4752	1	3	−	7, 3	1, 3	4, 3	I_1^*, I_3	3 : 1
C1(E)	1	−1	0	−6	−1	0	2	+	6, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
C2(F)	1	−1	0	−51	152	0	4	+	6, 2	0, 2	4, 2	I_0^*, I_2	2 : 1, 3, 4
C3(H)	1	−1	0	−816	9179	0	2	+	6, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
C4(G)	1	−1	0	−6	377	0	2	−	6, 4	0, 4	2, 2	I_0^*, I_4	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
154	$N = 154 = 2 \cdot 7 \cdot 11$ (3 isogeny classes)												154
A1(C)	1	-1	0	-29	69	1	2	-	6, 1, 2	6, 1, 2	2, 1, 2	I_6, I_1, I_2	2 : 2
A2(D)	1	-1	0	-469	4029	1	2	+	3, 2, 1	3, 2, 1	1, 2, 1	I_3, I_2, I_1	2 : 1
B1(E)	1	-1	1	-4	-89	0	4	-	12, 1, 2	12, 1, 2	12, 1, 2	I_{12}, I_1, I_2	2 : 2
B2(F)	1	-1	1	-324	-2137	0	4	+	6, 2, 4	6, 2, 4	6, 2, 2	I_6, I_2, I_4	2 : 1, 3, 4
B3(G)	1	-1	1	-5164	-141529	0	2	+	3, 4, 2	3, 4, 2	3, 2, 2	I_3, I_4, I_2	2 : 2
B4(H)	1	-1	1	-604	2343	0	2	+	3, 1, 8	3, 1, 8	3, 1, 2	I_3, I_1, I_8	2 : 2
C1(A)	1	1	0	-14	-28	0	2	-	4, 1, 2	4, 1, 2	2, 1, 2	I_4, I_1, I_2	2 : 2
C2(B)	1	1	0	-234	-1480	0	2	+	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	2 : 1
155	$N = 155 = 5 \cdot 31$ (3 isogeny classes)												155
A1(D)	0	-1	1	10	6	1	5	-	5, 1	5, 1	5, 1	I_5, I_1	5 : 2
A2(E)	0	-1	1	-840	-9114	1	1	-	1, 5	1, 5	1, 5	I_1, I_5	5 : 1
B1(A)	1	1	1	-1	-2	0	2	-	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
B2(B)	1	1	1	-26	-62	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 1
C1(C)	0	-1	1	-1	1	1	1	-	1, 1	1, 1	1, 1	I_1, I_1	
156	$N = 156 = 2^2 \cdot 3 \cdot 13$ (2 isogeny classes)												156
A1(E)	0	-1	0	-5	6	1	2	+	4, 2, 1	0, 2, 1	3, 2, 1	IV, I_2, I_1	2 : 2
A2(F)	0	-1	0	-20	-24	1	2	+	8, 1, 2	0, 1, 2	3, 1, 2	IV^*, I_1, I_2	2 : 1
B1(A)	0	1	0	-13	-4	0	6	+	4, 6, 1	0, 6, 1	3, 6, 1	IV, I_6, I_1	2 : 2; 3 : 3
B2(B)	0	1	0	-148	644	0	6	+	8, 3, 2	0, 3, 2	3, 3, 2	IV^*, I_3, I_2	2 : 1; 3 : 4
B3(C)	0	1	0	-733	-7888	0	2	+	4, 2, 3	0, 2, 3	1, 2, 3	IV, I_2, I_3	2 : 4; 3 : 1
B4(D)	0	1	0	-748	-7564	0	2	+	8, 1, 6	0, 1, 6	1, 1, 6	IV^*, I_1, I_6	2 : 3; 3 : 2
158	$N = 158 = 2 \cdot 79$ (5 isogeny classes)												158
A1(E)	1	-1	1	-9	9	1	1	+	8, 1	8, 1	8, 1	I_8, I_1	
B1(D)	1	1	0	-3	1	1	1	+	2, 1	2, 1	2, 1	I_2, I_1	
C1(H)	1	1	1	-420	3109	0	5	+	20, 1	20, 1	20, 1	I_{20}, I_1	5 : 2
C2(I)	1	1	1	-23380	-1385691	0	1	+	4, 5	4, 5	4, 1	I_4, I_5	5 : 1
D1(B)	1	0	1	-82	-92	0	3	+	6, 3	6, 3	2, 3	I_6, I_3	3 : 2, 3
D2(C)	1	0	1	-5217	-145452	0	1	+	18, 1	18, 1	2, 1	I_{18}, I_1	3 : 1
D3(A)	1	0	1	-47	118	0	3	+	2, 1	2, 1	2, 1	I_2, I_1	3 : 1
E1(F)	1	1	1	1	1	0	2	-	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
E2(G)	1	1	1	-9	5	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 1
160	$N = 160 = 2^5 \cdot 5$ (2 isogeny classes)												160
A1(D)	0	1	0	-6	4	1	2	+	6, 1	0, 1	2, 1	III, I_1	2 : 2
A2(C)	0	1	0	-1	15	1	2	-	12, 2	0, 2	4, 2	I_3^*, I_2	2 : 1
B1(A)	0	-1	0	-6	-4	0	2	+	6, 1	0, 1	2, 1	III, I_1	2 : 2
B2(B)	0	-1	0	-1	-15	0	2	-	12, 2	0, 2	2, 2	I_3^*, I_2	2 : 1
161	$N = 161 = 7 \cdot 23$ (1 isogeny class)												161
A1(B)	1	-1	1	-9	8	0	4	+	2, 2	2, 2	2, 2	I_2, I_2	2 : 2, 3, 4
A2(A)	1	-1	1	-4	-2	0	2	+	1, 1	1, 1	1, 1	I_1, I_1	2 : 1
A3(C)	1	-1	1	-124	560	0	4	+	4, 1	4, 1	4, 1	I_4, I_1	2 : 1

TABLE 1: ELLIPTIC CURVES 162A–170E

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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162 $N = 162 = 2 \cdot 3^4$ (4 isogeny classes)**162**

A1(K)	1	-1	0	-6	8	1	3	-	2, 6	2, 0	2, 3	I_2, IV	3 : 2
A2(L)	1	-1	0	39	-19	1	1	-	6, 10	6, 0	2, 3	I_6, IV^*	3 : 1
B1(G)	1	-1	1	-5	5	0	3	-	3, 4	3, 0	3, 1	I_3, II	3 : 2; 7 : 3
B2(H)	1	-1	1	25	1	0	1	-	1, 12	1, 0	1, 1	I_1, II^*	3 : 1; 7 : 4
B3(I)	1	-1	1	-95	-697	0	3	-	21, 4	21, 0	21, 1	I_{21}, II	3 : 4; 7 : 1
B4(J)	1	-1	1	-9695	-364985	0	1	-	7, 12	7, 0	7, 1	I_7, II^*	3 : 3; 7 : 2
C1(A)	1	-1	0	3	-1	0	3	-	1, 6	1, 0	1, 3	I_1, IV	3 : 2; 7 : 3
C2(B)	1	-1	0	-42	-100	0	1	-	3, 10	3, 0	1, 1	I_3, IV^*	3 : 1; 7 : 4
C3(D)	1	-1	0	-1077	13877	0	3	-	7, 6	7, 0	1, 3	I_7, IV	3 : 4; 7 : 1
C4(C)	1	-1	0	-852	19664	0	1	-	21, 10	21, 0	1, 1	I_{21}, IV^*	3 : 3; 7 : 2
D1(E)	1	-1	1	4	-1	0	3	-	6, 4	6, 0	6, 1	I_6, II	3 : 2
D2(F)	1	-1	1	-56	-161	0	1	-	2, 12	2, 0	2, 1	I_2, II^*	3 : 1

163 $N = 163 = 163$ (1 isogeny class)**163**

A1(A)	0	0	1	-2	1	1	1	-	1	1	1	I_1	
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166 $N = 166 = 2 \cdot 83$ (1 isogeny class)**166**

A1(A)	1	1	0	-6	4	1	1	-	4, 1	4, 1	2, 1	I_4, I_1	
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168 $N = 168 = 2^3 \cdot 3 \cdot 7$ (2 isogeny classes)**168**

A1(B)	0	1	0	-7	-10	0	2	+	4, 1, 1	0, 1, 1	2, 1, 1	III, I_1, I_1	2 : 2
A2(A)	0	1	0	-12	0	0	4	+	8, 2, 2	0, 2, 2	2, 2, 2	I_1^*, I_2, I_2	2 : 1, 3, 4
A3(C)	0	1	0	-152	672	0	4	+	10, 4, 1	0, 4, 1	2, 4, 1	III^*, I_4, I_1	2 : 2
A4(D)	0	1	0	48	48	0	2	-	10, 1, 4	0, 1, 4	2, 1, 2	III^*, I_1, I_4	2 : 2
B1(E)	0	-1	0	-7	52	0	4	-	4, 3, 4	0, 3, 4	2, 1, 4	III, I_3, I_4	2 : 2
B2(F)	0	-1	0	-252	1620	0	4	+	8, 6, 2	0, 6, 2	2, 2, 2	I_1^*, I_6, I_2	2 : 1, 3, 4
B3(G)	0	-1	0	-392	-228	0	2	+	10, 12, 1	0, 12, 1	2, 2, 1	III^*, I_{12}, I_1	2 : 2
B4(H)	0	-1	0	-4032	99900	0	2	+	10, 3, 1	0, 3, 1	2, 1, 1	III^*, I_3, I_1	2 : 2

170 $N = 170 = 2 \cdot 5 \cdot 17$ (5 isogeny classes)**170**

A1(A)	1	0	1	-8	6	1	2	+	4, 2, 1	4, 2, 1	2, 2, 1	I_4, I_2, I_1	2 : 2
A2(B)	1	0	1	12	38	1	2	-	2, 4, 2	2, 4, 2	2, 4, 2	I_2, I_4, I_2	2 : 1
B1(H)	1	0	1	-2554	49452	0	6	+	8, 2, 3	8, 2, 3	2, 2, 3	I_8, I_2, I_3	2 : 2; 3 : 3
B2(I)	1	0	1	-2474	52716	0	6	-	4, 4, 6	4, 4, 6	2, 2, 6	I_4, I_4, I_6	2 : 1; 3 : 4
B3(J)	1	0	1	-4169	-20724	0	2	+	24, 6, 1	24, 6, 1	2, 2, 1	I_{24}, I_6, I_1	2 : 4; 3 : 1
B4(K)	1	0	1	16311	-159988	0	2	-	12, 12, 2	12, 12, 2	2, 2, 2	I_{12}, I_{12}, I_2	2 : 3; 3 : 2
C1(F)	1	0	0	399	-919	0	3	-	21, 3, 1	21, 3, 1	21, 1, 1	I_{21}, I_3, I_1	3 : 2
C2(G)	1	0	0	-6641	-215575	0	1	-	7, 9, 3	7, 9, 3	7, 1, 1	I_7, I_9, I_3	3 : 1
D1(D)	1	0	1	-3	6	0	3	-	3, 3, 1	3, 3, 1	1, 3, 1	I_3, I_3, I_1	3 : 2
D2(E)	1	0	1	22	-164	0	1	-	9, 1, 3	9, 1, 3	1, 1, 1	I_9, I_1, I_3	3 : 1

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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171 **171**
 $N = 171 = 3^2 \cdot 19$ (4 isogeny classes)

A1(D)	1	-1	1	-14	20	0	4	+	7, 1	1, 1	4, 1	I_1^*, I_1	2 : 2
A2(E)	1	-1	1	-59	-142	0	4	+	8, 2	2, 2	4, 2	I_2^*, I_2	2 : 1, 3, 4
A3(F)	1	-1	1	-914	-10402	0	2	+	10, 1	4, 1	4, 1	I_4^*, I_1	2 : 2
A4(G)	1	-1	1	76	-790	0	2	-	7, 4	1, 4	2, 2	I_1^*, I_4	2 : 2
B1(A)	0	0	1	6	0	1	1	-	6, 1	0, 1	2, 1	I_0^*, I_1	3 : 2
B2(B)	0	0	1	-84	315	1	3	-	6, 3	0, 3	2, 3	I_0^*, I_3	3 : 1, 3
B3(C)	0	0	1	-6924	221760	1	3	-	6, 1	0, 1	2, 1	I_0^*, I_1	3 : 2
C1(I)	0	0	1	177	1035	0	1	-	16, 1	10, 1	2, 1	I_{10}^*, I_1	5 : 2
C2(J)	0	0	1	-39513	3023145	0	1	-	8, 5	2, 5	2, 1	I_2^*, I_5	5 : 1
D1(H)	0	0	1	-21	-41	0	1	-	8, 1	2, 1	2, 1	I_2^*, I_1	

172 **172**
 $N = 172 = 2^2 \cdot 43$ (1 isogeny class)

A1(A)	0	1	0	-13	15	1	3	-	8, 1	0, 1	3, 1	IV^*, I_1	3 : 2
A2(B)	0	1	0	67	79	1	1	-	8, 3	0, 3	1, 3	IV^*, I_3	3 : 1

174 **174**
 $N = 174 = 2 \cdot 3 \cdot 29$ (5 isogeny classes)

A1(I)	1	0	1	-7705	1226492	0	3	-	11, 21, 1	11, 21, 1	1, 21, 1	I_{11}, I_{21}, I_1	3 : 2
A2(J)	1	0	1	68840	-31810330	0	1	-	33, 7, 3	33, 7, 3	1, 7, 1	I_{33}, I_7, I_3	3 : 1
B1(G)	1	0	0	-1	137	0	7	-	7, 7, 1	7, 7, 1	7, 7, 1	I_7, I_7, I_1	7 : 2
B2(H)	1	0	0	-6511	-203353	0	1	-	1, 1, 7	1, 1, 7	1, 1, 7	I_1, I_1, I_7	7 : 1
C1(F)	1	1	1	-5	-7	0	1	-	1, 3, 1	1, 3, 1	1, 1, 1	I_1, I_3, I_1	
D1(A)	1	0	1	0	-2	0	2	-	4, 1, 1	4, 1, 1	2, 1, 1	I_4, I_1, I_1	2 : 2
D2(B)	1	0	1	-20	-34	0	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1, 3, 4
D3(C)	1	0	1	-310	-2122	0	2	+	1, 4, 1	1, 4, 1	1, 4, 1	I_1, I_4, I_1	2 : 2
D4(D)	1	0	1	-50	86	0	2	+	1, 1, 4	1, 1, 4	1, 1, 2	I_1, I_1, I_4	2 : 2
E1(E)	1	1	0	-56	-192	0	1	-	13, 1, 1	13, 1, 1	1, 1, 1	I_{13}, I_1, I_1	

175 **175**
 $N = 175 = 5^2 \cdot 7$ (3 isogeny classes)

A1(B)	0	-1	1	2	-2	1	1	-	3, 1	0, 1	2, 1	III, I_1	5 : 2
A2(A)	0	-1	1	-148	748	1	5	-	3, 5	0, 5	2, 5	III, I_5	5 : 1
B1(C)	0	-1	1	-33	93	1	1	-	7, 1	1, 1	4, 1	I_1^*, I_1	3 : 2
B2(D)	0	-1	1	217	-282	1	1	-	9, 3	3, 3	4, 1	I_3^*, I_3	3 : 1, 3
B3(E)	0	-1	1	-3283	-74657	1	1	-	15, 1	9, 1	4, 1	I_9^*, I_1	3 : 2
C1(F)	0	1	1	42	-131	0	1	-	9, 1	0, 1	2, 1	III^*, I_1	5 : 2
C2(G)	0	1	1	-3708	86119	0	1	-	9, 5	0, 5	2, 1	III^*, I_5	5 : 1

176 **176**
 $N = 176 = 2^4 \cdot 11$ (3 isogeny classes)

A1(C)	0	0	0	-4	-4	0	1	-	8, 1	0, 1	1, 1	I_0^*, I_1	
B1(D)	0	1	0	-5	-13	0	1	-	12, 1	0, 1	1, 1	II^*, I_1	5 : 2
B2(E)	0	1	0	-165	1427	0	1	-	12, 5	0, 5	1, 1	II^*, I_5	5 : 1, 3
B3(F)	0	1	0	-125125	16994227	0	1	-	12, 1	0, 1	1, 1	II^*, I_1	5 : 2
C1(A)	0	-1	0	3	1	1	1	-	8, 1	0, 1	2, 1	I^*, I_1	3 : 2

TABLE 1: ELLIPTIC CURVES 178A–186C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
178	$N = 178 = 2 \cdot 89$ (2 isogeny classes)												178
A1(A)	1	0	0	6	-28	0	3	-	12, 1	12, 1	12, 1	I_{12}, I_1	3 : 2
A2(B)	1	0	0	-554	-5068	0	1	-	4, 3	4, 3	4, 1	I_4, I_3	3 : 1
B1(C)	1	1	0	-44	80	0	2	+	14, 1	14, 1	2, 1	I_{14}, I_1	2 : 2
B2(D)	1	1	0	-684	6608	0	2	+	7, 2	7, 2	1, 2	I_7, I_2	2 : 1
179	$N = 179 = 179$ (1 isogeny class)												179
A1(A)	0	0	1	-1	-1	0	1	-	1	1	1	I_1	
180	$N = 180 = 2^2 \cdot 3^2 \cdot 5$ (1 isogeny class)												180
A1(A)	0	0	0	-12	-11	0	2	+	4, 6, 1	0, 0, 1	1, 2, 1	IV, I_0^*, I_1	2 : 2; 3 : 3
A2(B)	0	0	0	33	-74	0	2	-	8, 6, 2	0, 0, 2	1, 2, 2	IV^*, I_0^*, I_2	2 : 1; 3 : 4
A3(C)	0	0	0	-372	2761	0	6	+	4, 6, 3	0, 0, 3	3, 2, 3	IV, I_0^*, I_3	2 : 4; 3 : 1
A4(D)	0	0	0	-327	3454	0	6	-	8, 6, 6	0, 0, 6	3, 2, 6	IV^*, I_0^*, I_6	2 : 3; 3 : 2
182	$N = 182 = 2 \cdot 7 \cdot 13$ (5 isogeny classes)												182
A1(E)	1	-1	1	866	6445	0	4	-	20, 3, 2	20, 3, 2	20, 1, 2	I_{20}, I_3, I_2	2 : 2
A2(F)	1	-1	1	-4254	59693	0	4	+	10, 6, 4	10, 6, 4	10, 2, 2	I_{10}, I_6, I_4	2 : 1, 3, 4
A3(G)	1	-1	1	-31294	-2081875	0	2	+	5, 12, 2	5, 12, 2	5, 2, 2	I_5, I_{12}, I_2	2 : 2
A4(H)	1	-1	1	-59134	5547693	0	2	+	5, 3, 8	5, 3, 8	5, 1, 2	I_5, I_3, I_8	2 : 2
B1(A)	1	0	0	7	-7	0	3	-	9, 1, 1	9, 1, 1	9, 1, 1	I_9, I_1, I_1	3 : 2
B2(B)	1	0	0	-193	-1055	0	3	-	3, 3, 3	3, 3, 3	3, 3, 3	I_3, I_3, I_3	3 : 1, 3
B3(C)	1	0	0	-15663	-755809	0	1	-	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	3 : 2
C1(J)	1	0	1	-4609	120244	0	1	-	11, 7, 1	11, 7, 1	1, 1, 1	I_{11}, I_7, I_1	
D1(D)	1	-1	1	3	-5	0	1	-	1, 3, 1	1, 3, 1	1, 1, 1	I_1, I_3, I_1	
E1(I)	1	-1	0	-22	884	0	1	-	7, 1, 5	7, 1, 5	1, 1, 1	I_7, I_1, I_5	
184	$N = 184 = 2^3 \cdot 23$ (4 isogeny classes)												184
A1(C)	0	-1	0	0	1	1	1	-	4, 1	0, 1	2, 1	III, I_1	
B1(B)	0	-1	0	-4	5	1	1	-	4, 1	0, 1	2, 1	III, I_1	
C1(D)	0	0	0	5	6	0	2	-	10, 1	0, 1	2, 1	III^*, I_1	2 : 2
C2(E)	0	0	0	-35	62	0	2	+	11, 2	0, 2	1, 2	II^*, I_2	2 : 1
D1(A)	0	0	0	-55	-157	0	1	-	4, 1	0, 1	2, 1	III, I_1	
185	$N = 185 = 5 \cdot 37$ (3 isogeny classes)												185
A1(D)	0	1	1	-156	700	1	1	+	4, 1	4, 1	2, 1	I_4, I_1	
B1(A)	0	-1	1	-5	6	1	1	+	2, 1	2, 1	2, 1	I_2, I_1	
C1(B)	1	0	1	-4	-3	1	2	+	1, 1	1, 1	1, 1	I_1, I_1	2 : 2
C2(C)	1	0	1	1	-9	1	2	-	2, 2	2, 2	2, 2	I_2, I_2	2 : 1
186	$N = 186 = 2 \cdot 3 \cdot 31$ (3 isogeny classes)												186
A1(D)	1	1	0	-83	-369	0	1	-	1, 11, 1	1, 11, 1	1, 1, 1	I_1, I_{11}, I_1	
B1(B)	1	0	0	15	9	0	5	-	5, 5, 1	5, 5, 1	5, 5, 1	I_5, I_5, I_1	5 : 2
B2(C)	1	0	0	-1395	-20181	0	1	-	1, 1, 5	1, 1, 5	1, 1, 5	I_1, I_1, I_5	5 : 1

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
187	$N = 187 = 11 \cdot 17$ (2 isogeny classes)												187
A1(A)	0	1	1	11	30	0	3	–	3, 2	3, 2	3, 2	I_3, I_2	3 : 2
A2(B)	0	1	1	–99	–905	0	1	–	1, 6	1, 6	1, 2	I_1, I_6	3 : 1
B1(C)	0	0	1	7	1	0	1	–	3, 1	3, 1	1, 1	I_3, I_1	
189	$N = 189 = 3^3 \cdot 7$ (4 isogeny classes)												189
A1(A)	0	0	1	–3	0	1	1	+	5, 1	0, 1	3, 1	IV, I_1	
B1(C)	0	0	1	–24	45	1	3	+	3, 1	0, 1	1, 1	II, I_1	3 : 2
B2(D)	0	0	1	–54	–88	1	3	+	9, 3	0, 3	3, 3	IV^*, I_3	3 : 1, 3
B3(E)	0	0	1	–3834	–91375	1	1	+	11, 1	0, 1	1, 1	II^*, I_1	3 : 2
C1(F)	0	0	1	–6	3	0	3	+	3, 3	0, 3	1, 3	II, I_3	3 : 2, 3
C2(G)	0	0	1	–216	–1222	0	1	+	9, 1	0, 1	1, 1	IV^*, I_1	3 : 1
C3(H)	0	0	1	–426	3384	0	3	+	5, 1	0, 1	3, 1	IV, I_1	3 : 1
D1(B)	0	0	1	–27	–7	0	1	+	11, 1	0, 1	1, 1	II^*, I_1	
190	$N = 190 = 2 \cdot 5 \cdot 19$ (3 isogeny classes)												190
A1(D)	1	–1	1	–48	147	1	1	–	11, 2, 1	11, 2, 1	11, 2, 1	I_{11}, I_2, I_1	
B1(C)	1	1	0	2	2	1	1	–	1, 2, 1	1, 2, 1	1, 2, 1	I_1, I_2, I_1	
C1(A)	1	0	0	–30	–100	0	3	–	3, 6, 1	3, 6, 1	3, 6, 1	I_3, I_6, I_1	3 : 2
C2(B)	1	0	0	–2780	–56650	0	1	–	1, 2, 3	1, 2, 3	1, 2, 3	I_1, I_2, I_3	3 : 1
192	$N = 192 = 2^6 \cdot 3$ (4 isogeny classes)												192
A1(Q)	0	–1	0	–4	–2	1	2	+	6, 1	0, 1	1, 1	II, I_1	2 : 2
A2(R)	0	–1	0	–9	9	1	4	+	12, 2	0, 2	4, 2	I_2^*, I_2	2 : 1, 3, 4
A3(T)	0	–1	0	–129	609	1	4	+	15, 1	0, 1	4, 1	I_5^*, I_1	2 : 2
A4(S)	0	–1	0	31	33	1	2	–	15, 4	0, 4	4, 2	I_5^*, I_4	2 : 2
B1(A)	0	1	0	–4	2	0	2	+	6, 1	0, 1	1, 1	II, I_1	2 : 2
B2(B)	0	1	0	–9	–9	0	4	+	12, 2	0, 2	4, 2	I_2^*, I_2	2 : 1, 3, 4
B3(D)	0	1	0	–129	–609	0	2	+	15, 1	0, 1	4, 1	I_5^*, I_1	2 : 2
B4(C)	0	1	0	31	–33	0	4	–	15, 4	0, 4	4, 4	I_5^*, I_4	2 : 2
C1(K)	0	1	0	3	3	0	2	–	10, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
C2(L)	0	1	0	–17	15	0	4	+	14, 2	0, 2	4, 2	I_4^*, I_2	2 : 1, 3, 4
C3(M)	0	1	0	–97	–385	0	4	+	16, 4	0, 4	4, 4	I_6^*, I_4	2 : 2, 5, 6
C4(N)	0	1	0	–257	1503	0	2	+	16, 1	0, 1	2, 1	I_6^*, I_1	2 : 2
C5(P)	0	1	0	–1537	–23713	0	2	+	17, 2	0, 2	4, 2	I_7^*, I_2	2 : 3
C6(O)	0	1	0	63	–1377	0	4	–	17, 8	0, 8	4, 8	I_7^*, I_8	2 : 3
D1(E)	0	–1	0	3	–3	0	2	–	10, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
D2(F)	0	–1	0	–17	–15	0	4	+	14, 2	0, 2	4, 2	I_4^*, I_2	2 : 1, 3, 4
D3(H)	0	–1	0	–257	–1503	0	2	+	16, 1	0, 1	4, 1	I_6^*, I_1	2 : 2
D4(G)	0	–1	0	–97	385	0	4	+	16, 4	0, 4	4, 2	I_6^*, I_4	2 : 2, 5, 6
D5(J)	0	–1	0	–1537	23713	0	4	+	17, 2	0, 2	4, 2	I_7^*, I_2	2 : 4
D6(I)	0	–1	0	63	1377	0	2	–	17, 8	0, 8	2, 2	I_7^*, I_8	2 : 4
194	$N = 194 = 2 \cdot 97$ (1 isogeny class)												194
A1(A)	1	–1	1	–3	–1	0	2	+	2, 1	2, 1	2, 1	I_2, I_1	2 : 2

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$$\mathbf{200} \quad N = 200 = 2^3 \cdot 5^2 \quad (5 \text{ isogeny classes}) \quad \mathbf{200}$$

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
200	$N = 200 = 2^3 \cdot 5^2$ (continued)												200
B1(C)	0	1	0	-3	-2	1	2	+	4, 3	0, 0	2, 2	III, III	2 : 2
B2(D)	0	1	0	-28	48	1	2	+	8, 3	0, 0	4, 2	I ₁ [*] , III	2 : 1
C1(G)	0	0	0	-50	125	0	4	+	4, 7	0, 1	2, 4	III, I ₁ [*]	2 : 2
C2(H)	0	0	0	-175	-750	0	4	+	8, 8	0, 2	4, 4	I ₁ [*] , I ₂ [*]	2 : 1, 3, 4
C3(J)	0	0	0	-2675	-53250	0	2	+	10, 7	0, 1	2, 4	III [*] , I ₁ [*]	2 : 2
C4(I)	0	0	0	325	-4250	0	2	-	10, 10	0, 4	2, 4	III [*] , I ₄ [*]	2 : 2
D1(E)	0	-1	0	-83	-88	0	2	+	4, 9	0, 0	2, 2	III, III [*]	2 : 2
D2(F)	0	-1	0	-708	7412	0	2	+	8, 9	0, 0	2, 2	I ₁ [*] , III [*]	2 : 1
E1(A)	0	0	0	5	-10	0	1	-	11, 2	0, 0	1, 1	II [*] , II	
201	$N = 201 = 3 \cdot 67$ (3 isogeny classes)												201
A1	0	-1	1	2	0	1	1	-	2, 1	2, 1	2, 1	I ₂ , I ₁	
B1	1	0	0	-1	2	1	1	-	3, 1	3, 1	3, 1	I ₃ , I ₁	
C1	1	1	0	-794	8289	1	1	-	5, 1	5, 1	1, 1	I ₅ , I ₁	
202	$N = 202 = 2 \cdot 101$ (1 isogeny class)												202
A1	1	-1	0	4	-176	0	1	-	17, 1	17, 1	1, 1	I ₁₇ , I ₁	
203	$N = 203 = 7 \cdot 29$ (3 isogeny classes)												203
A1	0	-1	1	20	-8	0	5	-	5, 1	5, 1	5, 1	I ₅ , I ₁	5 : 2
A2	0	-1	1	-2150	-37668	0	1	-	1, 5	1, 5	1, 1	I ₁ , I ₅	5 : 1
B1	1	1	1	0	-2	1	1	-	2, 1	2, 1	2, 1	I ₂ , I ₁	
C1	1	1	0	-9	8	0	2	-	1, 2	1, 2	1, 2	I ₁ , I ₂	2 : 2
C2	1	1	0	-154	675	0	2	+	2, 1	2, 1	2, 1	I ₂ , I ₁	2 : 1
204	$N = 204 = 2^2 \cdot 3 \cdot 17$ (2 isogeny classes)												204
A1	0	-1	0	-1621	-24623	0	1	-	8, 11, 1	0, 11, 1	3, 1, 1	IV [*] , I ₁₁ , I ₁	
B1	0	1	0	-5	-9	0	1	-	8, 1, 1	0, 1, 1	1, 1, 1	IV [*] , I ₁ , I ₁	
205	$N = 205 = 5 \cdot 41$ (3 isogeny classes)												205
A1	1	-1	1	-22	44	1	4	+	2, 1	2, 1	2, 1	I ₂ , I ₁	2 : 2
A2	1	-1	1	-27	26	1	4	+	4, 2	4, 2	4, 2	I ₄ , I ₂	2 : 1, 3, 4
A3	1	-1	1	-232	-1286	1	2	+	8, 1	8, 1	8, 1	I ₈ , I ₁	2 : 2
A4	1	-1	1	98	126	1	4	-	2, 4	2, 4	2, 4	I ₂ , I ₄	2 : 2
B1	1	1	1	-21	-46	0	2	+	2, 1	2, 1	2, 1	I ₂ , I ₁	2 : 2
B2	1	1	1	-16	-62	0	2	-	4, 2	4, 2	2, 2	I ₄ , I ₂	2 : 1
C1	1	1	0	-2	-1	0	2	+	2, 1	2, 1	2, 1	I ₂ , I ₁	2 : 2
C2	1	1	0	-27	44	0	2	+	1, 2	1, 2	1, 2	I ₁ , I ₂	2 : 1
206	$N = 206 = 2 \cdot 103$ (1 isogeny class)												206
A1	1	1	0	2	0	0	2	-	2, 1	2, 1	2, 1	I ₂ , I ₁	2 : 2
A2	1	1	0	-8	-10	0	2	+	1, 2	1, 2	1, 2	I ₁ , I ₂	2 : 1
207	$N = 207 = 3^2 \cdot 23$ (1 isogeny class)												207
A1	1	-1	1	-5	20	1	2	-	8, 1	2, 1	4, 1	I [*] , I ₁	2 : 2

TABLE 1: ELLIPTIC CURVES 208A–210D

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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208 $N = 208 = 2^4 \cdot 13$ (4 isogeny classes)**208**

A1	0	-1	0	8	-16	1	1	-	13, 1	1, 1	4, 1	I_5^*, I_1	3 : 2
A2	0	-1	0	-72	496	1	1	-	15, 3	3, 3	4, 3	I_7^*, I_3	3 : 1, 3
A3	0	-1	0	-7352	245104	1	1	-	21, 1	9, 1	4, 1	I_{13}^*, I_1	3 : 2
B1	0	-1	0	-16	32	1	1	-	11, 1	0, 1	4, 1	I_3^*, I_1	
C1	0	0	0	1	10	0	2	-	8, 2	0, 2	1, 2	I_0^*, I_2	2 : 2
C2	0	0	0	-4	3	0	2	+	4, 1	0, 1	1, 1	II, I_1	2 : 1
D1	0	0	0	-43	-166	0	1	-	19, 1	7, 1	2, 1	I_{11}^*, I_1	7 : 2
D2	0	0	0	-3403	83834	0	1	-	13, 7	1, 7	2, 1	I_5^*, I_7	7 : 1

209 $N = 209 = 11 \cdot 19$ (1 isogeny class)**209**

A1	0	1	1	-27	55	1	3	-	3, 2	3, 2	3, 2	I_3, I_2	3 : 2
A2	0	1	1	193	-308	1	1	-	1, 6	1, 6	1, 6	I_1, I_6	3 : 1

210 $N = 210 = 2 \cdot 3 \cdot 5 \cdot 7$ (5 isogeny classes)**210**

A1	1	0	0	-41	-39	0	6	+	12, 3, 1, 1	12, 3, 1, 1	12, 3, 1, 1	I_{12}, I_3, I_1, I_1	2 : 2; 3 : 3
A2	1	0	0	-361	2585	0	12	+	6, 6, 2, 2	6, 6, 2, 2	6, 6, 2, 2	I_6, I_6, I_2, I_2	2 : 1, 4, 5; 3 : 6
A3	1	0	0	-2681	-53655	0	2	+	4, 1, 3, 3	4, 1, 3, 3	4, 1, 1, 3	I_4, I_1, I_3, I_3	2 : 6; 3 : 1
A4	1	0	0	-5761	167825	0	6	+	3, 3, 1, 4	3, 3, 1, 4	3, 3, 1, 4	I_3, I_3, I_1, I_4	2 : 2; 3 : 7
A5	1	0	0	-81	6561	0	6	-	3, 12, 4, 1	3, 12, 4, 1	3, 12, 2, 1	I_3, I_{12}, I_4, I_1	2 : 2; 3 : 8
A6	1	0	0	-2701	-52819	0	4	+	2, 2, 6, 6	2, 2, 6, 6	2, 2, 2, 6	I_2, I_2, I_6, I_6	2 : 3, 7, 8; 3 : 2
A7	1	0	0	-6451	124931	0	2	+	1, 1, 3, 12	1, 1, 3, 12	1, 1, 1, 12	I_1, I_1, I_3, I_{12}	2 : 6; 3 : 4
A8	1	0	0	729	-176985	0	2	-	1, 4, 12, 3	1, 4, 12, 3	1, 4, 2, 3	I_1, I_4, I_{12}, I_3	2 : 6; 3 : 5
B1	1	0	1	-498	4228	0	6	+	8, 3, 3, 1	8, 3, 3, 1	2, 3, 3, 1	I_8, I_3, I_3, I_1	2 : 2; 3 : 3
B2	1	0	1	-578	2756	0	12	+	4, 6, 6, 2	4, 6, 6, 2	2, 6, 6, 2	I_4, I_6, I_6, I_2	2 : 1, 4, 5; 3 : 6
B3	1	0	1	-1473	-16652	0	2	+	24, 1, 1, 3	24, 1, 1, 3	2, 1, 1, 3	I_{24}, I_1, I_1, I_3	2 : 6; 3 : 1
B4	1	0	1	-4358	-109132	0	6	+	2, 3, 12, 1	2, 3, 12, 1	2, 3, 12, 1	I_2, I_3, I_{12}, I_1	2 : 2; 3 : 7
B5	1	0	1	1922	20756	0	12	-	2, 12, 3, 4	2, 12, 3, 4	2, 12, 3, 4	I_2, I_{12}, I_3, I_4	2 : 2; 3 : 8
B6	1	0	1	-21953	-1253644	0	4	+	12, 2, 2, 6	12, 2, 2, 6	2, 2, 2, 6	I_{12}, I_2, I_2, I_6	2 : 3, 7, 8; 3 : 2
B7	1	0	1	-351233	-80149132	0	2	+	6, 1, 4, 3	6, 1, 4, 3	2, 1, 4, 3	I_6, I_1, I_4, I_3	2 : 6; 3 : 4
B8	1	0	1	-20353	-1443724	0	4	-	6, 4, 1, 12	6, 4, 1, 12	2, 4, 1, 12	I_6, I_4, I_1, I_{12}	2 : 6; 3 : 5
C1	1	1	1	10	-13	0	4	-	8, 1, 1, 2	8, 1, 1, 2	8, 1, 1, 2	I_8, I_1, I_1, I_2	2 : 2
C2	1	1	1	-70	-205	0	8	+	4, 2, 2, 4	4, 2, 2, 4	4, 2, 2, 4	I_4, I_2, I_2, I_4	2 : 1, 3, 4
C3	1	1	1	-1050	-13533	0	4	+	2, 4, 4, 2	2, 4, 4, 2	2, 2, 4, 2	I_2, I_4, I_4, I_2	2 : 2, 5, 6
C4	1	1	1	-370	2435	0	4	+	2, 1, 1, 8	2, 1, 1, 8	2, 1, 1, 8	I_2, I_1, I_1, I_8	2 : 2
C5	1	1	1	-16800	-845133	0	2	+	1, 2, 2, 1	1, 2, 2, 1	1, 2, 2, 1	I_1, I_2, I_2, I_1	2 : 3
C6	1	1	1	-980	-15325	0	2	-	1, 8, 8, 1	1, 8, 8, 1	1, 2, 8, 1	I_1, I_8, I_8, I_1	2 : 3
D1	1	1	0	-3	-3	1	2	+	4, 1, 1, 1	4, 1, 1, 1	2, 1, 1, 1	I_4, I_1, I_1, I_1	2 : 2
D2	1	1	0	-23	33	1	4	+	2, 2, 2, 2	2, 2, 2, 2	2, 2, 2, 2	I_2, I_2, I_2, I_2	2 : 1, 3, 4
D3	1	1	0	-373	2623	1	2	+	1, 4, 1, 1	1, 4, 1, 1	1, 2, 1, 1	I_1, I_4, I_1, I_1	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
210	$N = 210 = 2 \cdot 3 \cdot 5 \cdot 7$ (continued)												210
E1	1	0	0	210	900	0	8	−	16, 4, 2, 1	16, 4, 2, 1	16, 4, 2, 1	I_{16}, I_4, I_2, I_1	2 : 2
E2	1	0	0	−1070	7812	0	16	+	8, 8, 4, 2	8, 8, 4, 2	8, 8, 4, 2	I_8, I_8, I_4, I_2	2 : 1, 3, 4
E3	1	0	0	−7550	−247500	0	8	+	4, 4, 8, 4	4, 4, 8, 4	4, 4, 8, 2	I_4, I_4, I_8, I_4	2 : 2, 5, 6
E4	1	0	0	−15070	710612	0	8	+	4, 16, 2, 1	4, 16, 2, 1	4, 16, 2, 1	I_4, I_{16}, I_2, I_1	2 : 2
E5	1	0	0	−120050	−16020000	0	4	+	2, 2, 4, 8	2, 2, 4, 8	2, 2, 4, 2	I_2, I_2, I_4, I_8	2 : 3, 7, 8
E6	1	0	0	1270	−789048	0	4	−	2, 2, 16, 2	2, 2, 16, 2	2, 2, 16, 2	I_2, I_2, I_{16}, I_2	2 : 3
E7	1	0	0	−1920800	−1024800150	0	2	+	1, 1, 2, 4	1, 1, 2, 4	1, 1, 2, 2	I_1, I_1, I_2, I_4	2 : 5
E8	1	0	0	−119300	−16229850	0	2	−	1, 1, 2, 16	1, 1, 2, 16	1, 1, 2, 2	I_1, I_1, I_2, I_{16}	2 : 5
212	$N = 212 = 2^2 \cdot 53$ (2 isogeny classes)												212
A1	0	−1	0	−4	8	1	1	−	8, 1	0, 1	3, 1	IV^*, I_1	
B1	0	−1	0	−12	−40	0	2	−	8, 2	0, 2	3, 2	IV^*, I_2	2 : 2
B2	0	−1	0	−17	−22	0	2	+	4, 1	0, 1	3, 1	IV, I_1	2 : 1
213	$N = 213 = 3 \cdot 71$ (1 isogeny class)												213
A1	1	0	1	0	1	0	2	−	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
A2	1	0	1	−15	19	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 1
214	$N = 214 = 2 \cdot 107$ (4 isogeny classes)												214
A1	1	0	0	−12	16	1	1	−	7, 1	7, 1	7, 1	I_7, I_1	
B1	1	0	1	1	0	1	1	−	1, 1	1, 1	1, 1	I_1, I_1	
C1	1	0	1	−193	1012	1	1	−	10, 1	10, 1	2, 1	I_{10}, I_1	
D1	1	0	0	2	4	0	3	−	6, 1	6, 1	6, 1	I_6, I_1	3 : 2
D2	1	0	0	−18	−112	0	1	−	2, 3	2, 3	2, 1	I_2, I_3	3 : 1
215	$N = 215 = 5 \cdot 43$ (1 isogeny class)												215
A1	0	0	1	−8	−12	1	1	−	4, 1	4, 1	2, 1	I_4, I_1	
216	$N = 216 = 2^3 \cdot 3^3$ (4 isogeny classes)												216
A1	0	0	0	−12	20	1	1	−	8, 5	0, 0	4, 3	I_1^*, IV	
B1	0	0	0	−3	−34	0	1	−	11, 5	0, 0	1, 1	II^*, IV	
C1	0	0	0	−27	918	0	1	−	11, 11	0, 0	1, 1	II^*, II^*	
D1	0	0	0	−108	−540	0	1	−	8, 11	0, 0	2, 1	I_1^*, II^*	
218	$N = 218 = 2 \cdot 109$ (1 isogeny class)												218
A1	1	0	0	−2	4	1	3	−	6, 1	6, 1	6, 1	I_6, I_1	3 : 2
A2	1	0	0	18	−104	1	1	−	2, 3	2, 3	2, 3	I_2, I_3	3 : 1
219	$N = 219 = 3 \cdot 73$ (3 isogeny classes)												219
A1	0	−1	1	−6	8	1	1	−	1, 1	1, 1	1, 1	I_1, I_1	
B1	0	1	1	3	2	1	3	−	3, 1	3, 1	3, 1	I_3, I_1	3 : 2
B2	0	1	1	−27	−85	1	1	−	1, 3	1, 3	1, 3	I_1, I_3	3 : 1
C1	1	1	0	−82	−305	1	2	+	10, 1	10, 1	2, 1	I_{10}, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 220A–225D

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
220	$N = 220 = 2^2 \cdot 5 \cdot 11$ (2 isogeny classes)												220
A1	0	1	0	-45	100	1	6	+	4, 3, 2	0, 3, 2	3, 3, 2	IV, I ₃ , I ₂	2 : 2; 3 : 3
A2	0	1	0	-100	-252	1	6	+	8, 6, 1	0, 6, 1	3, 6, 1	IV*, I ₆ , I ₁	2 : 1; 3 : 4
A3	0	1	0	-445	-3720	1	2	+	4, 1, 6	0, 1, 6	1, 1, 2	IV, I ₁ , I ₆	2 : 4; 3 : 1
A4	0	1	0	-7100	-232652	1	2	+	8, 2, 3	0, 2, 3	1, 2, 1	IV*, I ₂ , I ₃	2 : 3; 3 : 2
B1	0	-1	0	-5	2	0	2	+	4, 1, 2	0, 1, 2	1, 1, 2	IV, I ₁ , I ₂	2 : 2
B2	0	-1	0	-60	200	0	2	+	8, 2, 1	0, 2, 1	1, 2, 1	IV*, I ₂ , I ₁	2 : 1
221	$N = 221 = 13 \cdot 17$ (2 isogeny classes)												221
A1	1	-1	1	-733	7804	0	2	+	6, 1	6, 1	2, 1	I ₆ , I ₁	2 : 2
A2	1	-1	1	-11718	491144	0	2	+	3, 2	3, 2	1, 2	I ₃ , I ₂	2 : 1
B1	1	1	0	-59	152	0	2	+	2, 1	2, 1	2, 1	I ₂ , I ₁	2 : 2
B2	1	1	0	-54	185	0	2	-	4, 2	4, 2	2, 2	I ₄ , I ₂	2 : 1
222	$N = 222 = 2 \cdot 3 \cdot 37$ (5 isogeny classes)												222
A1	1	0	0	2	-4	0	3	-	3, 3, 1	3, 3, 1	3, 3, 1	I ₃ , I ₃ , I ₁	3 : 2
A2	1	0	0	-148	-706	0	1	-	1, 1, 3	1, 1, 3	1, 1, 3	I ₁ , I ₁ , I ₃	3 : 1
B1	1	1	1	17	179	0	1	-	1, 11, 1	1, 11, 1	1, 1, 1	I ₁ , I ₁₁ , I ₁	
C1	1	1	0	16	0	0	2	-	8, 3, 1	8, 3, 1	2, 1, 1	I ₈ , I ₃ , I ₁	2 : 2
C2	1	1	0	-64	-80	0	4	+	4, 6, 2	4, 6, 2	2, 2, 2	I ₄ , I ₆ , I ₂	2 : 1, 3, 4
C3	1	1	0	-804	-9108	0	2	+	2, 12, 1	2, 12, 1	2, 2, 1	I ₂ , I ₁₂ , I ₁	2 : 2
C4	1	1	0	-604	5428	0	4	+	2, 3, 4	2, 3, 4	2, 1, 4	I ₂ , I ₃ , I ₄	2 : 2
D1	1	0	1	1	-46	0	1	-	13, 1, 1	13, 1, 1	1, 1, 1	I ₁₃ , I ₁ , I ₁	
E1	1	1	0	-182317	29887645	0	1	-	23, 9, 1	23, 9, 1	1, 1, 1	I ₂₃ , I ₉ , I ₁	
224	$N = 224 = 2^5 \cdot 7$ (2 isogeny classes)												224
A1	0	1	0	2	0	1	2	-	6, 1	0, 1	2, 1	III, I ₁	2 : 2
A2	0	1	0	-8	-8	1	2	+	9, 2	0, 2	2, 2	I ₀ *, I ₂	2 : 1
B1	0	-1	0	2	0	0	2	-	6, 1	0, 1	2, 1	III, I ₁	2 : 2
B2	0	-1	0	-8	8	0	2	+	9, 2	0, 2	1, 2	I ₀ *, I ₂	2 : 1
225	$N = 225 = 3^2 \cdot 5^2$ (5 isogeny classes)												225
A1	0	0	1	0	1	1	1	-	3, 2	0, 0	2, 1	III, II	3 : 2
A2	0	0	1	0	-34	1	1	-	9, 2	0, 0	2, 1	III*, II	3 : 1
B1	0	0	1	0	156	0	3	-	3, 8	0, 0	2, 3	III, IV*	3 : 2
B2	0	0	1	0	-4219	0	1	-	9, 8	0, 0	2, 1	III*, IV*	3 : 1
C1	1	-1	1	-5	-628	0	4	-	7, 7	1, 1	4, 4	I ₁ *, I ₁ *	2 : 2
C2	1	-1	1	-1130	-14128	0	4	+	8, 8	2, 2	4, 4	I ₂ *, I ₂ *	2 : 1, 3, 4
C3	1	-1	1	-18005	-925378	0	2	+	7, 7	1, 1	2, 4	I ₁ *, I ₁ *	2 : 2
C4	1	-1	1	-2255	19622	0	4	+	10, 10	4, 4	4, 4	I ₄ *, I ₄ *	2 : 2, 5, 6
C5	1	-1	1	-30380	2044622	0	4	+	14, 8	8, 2	4, 4	I ₈ *, I ₂ *	2 : 4, 7, 8
C6	1	-1	1	7870	141122	0	2	-	8, 14	2, 8	2, 4	I ₂ *, I ₈ *	2 : 4
C7	1	-1	1	-486005	130530872	0	2	+	10, 7	4, 1	2, 2	I ₄ *, I ₁ *	2 : 5
C8	1	-1	1	-24755	2820872	0	2	-	22, 7	16, 1	4, 2	I ₁₆ *, I ₁ *	2 : 5
D1	0	0	1	15	-99	0	1	-	11, 2	5, 0	2, 1	I ₁ *, II	5 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
225	$N = 225 = 3^2 \cdot 5^2$ (continued)												225
E1	0	0	1	-75	256	1	1	-	7, 4	1, 0	4, 3	I_1^*, IV	5 : 2
E2	0	0	1	375	-12344	1	1	-	11, 8	5, 0	4, 3	I_5^*, IV^*	5 : 1
226	$N = 226 = 2 \cdot 113$ (1 isogeny class)												226
A1	1	0	0	-5	1	1	2	+	6, 1	6, 1	6, 1	I_6, I_1	2 : 2
A2	1	0	0	-45	-119	1	2	+	3, 2	3, 2	3, 2	I_3, I_2	2 : 1
228	$N = 228 = 2^2 \cdot 3 \cdot 19$ (2 isogeny classes)												228
A1	0	-1	0	3	18	0	2	-	4, 3, 2	0, 3, 2	1, 1, 2	IV, I_3, I_2	2 : 2
A2	0	-1	0	-92	360	0	2	+	8, 6, 1	0, 6, 1	1, 2, 1	IV^*, I_6, I_1	2 : 1
B1	0	-1	0	3	9	1	1	-	8, 2, 1	0, 2, 1	3, 2, 1	IV^*, I_2, I_1	
229	$N = 229 = 229$ (1 isogeny class)												229
A1	1	0	0	-2	-1	1	1	+	1	1	1	I_1	
231	$N = 231 = 3 \cdot 7 \cdot 11$ (1 isogeny class)												231
A1	1	1	1	-34	62	0	4	+	1, 2, 1	1, 2, 1	1, 2, 1	I_1, I_2, I_1	2 : 2
A2	1	1	1	-39	36	0	8	+	2, 4, 2	2, 4, 2	2, 4, 2	I_2, I_4, I_2	2 : 1, 3, 4
A3	1	1	1	-284	-1924	0	4	+	4, 2, 4	4, 2, 4	2, 2, 2	I_4, I_2, I_4	2 : 2, 5, 6
A4	1	1	1	126	432	0	4	-	1, 8, 1	1, 8, 1	1, 8, 1	I_1, I_8, I_1	2 : 2
A5	1	1	1	-4519	-118810	0	2	+	8, 1, 2	8, 1, 2	2, 1, 2	I_8, I_1, I_2	2 : 3
A6	1	1	1	31	-5578	0	2	-	2, 1, 8	2, 1, 8	2, 1, 2	I_2, I_1, I_8	2 : 3
232	$N = 232 = 2^3 \cdot 29$ (2 isogeny classes)												232
A1	0	-1	0	8	-4	1	1	-	10, 1	0, 1	2, 1	III^*, I_1	
B1	0	1	0	-80	-304	0	1	-	10, 1	0, 1	2, 1	III^*, I_1	
233	$N = 233 = 233$ (1 isogeny class)												233
A1	1	0	1	0	11	0	2	-	2	2	2	I_2	2 : 2
A2	1	0	1	-5	3	0	2	+	1	1	1	I_1	2 : 1
234	$N = 234 = 2 \cdot 3^2 \cdot 13$ (5 isogeny classes)												234
A1	1	-1	0	-24	-64	0	1	-	7, 6, 1	7, 0, 1	1, 1, 1	I_7, I_0^*, I_1	7 : 2
A2	1	-1	0	-1914	35846	0	1	-	1, 6, 7	1, 0, 7	1, 1, 1	I_1, I_0^*, I_7	7 : 1
B1	1	-1	1	-29	-107	0	2	-	4, 9, 1	4, 0, 1	4, 2, 1	I_4, III^*, I_1	2 : 2
B2	1	-1	1	-569	-5075	0	2	+	2, 9, 2	2, 0, 2	2, 2, 2	I_2, III^*, I_2	2 : 1
C1	1	-1	0	-3	5	1	2	-	4, 3, 1	4, 0, 1	2, 2, 1	I_4, III, I_1	2 : 2
C2	1	-1	0	-63	209	1	2	+	2, 3, 2	2, 0, 2	2, 2, 2	I_2, III, I_2	2 : 1
D1	1	-1	1	-176	-18669	0	4	-	16, 11, 1	16, 5, 1	16, 4, 1	I_{16}, I_5^*, I_1	2 : 2
D2	1	-1	1	-11696	-479469	0	4	+	8, 16, 2	8, 10, 2	8, 4, 2	I_8, I_{10}^*, I_2	2 : 1, 3, 4
D3	1	-1	1	-186656	-30992493	0	2	+	4, 11, 4	4, 5, 4	4, 2, 4	I_4, I_5^*, I_4	2 : 2
D4	1	-1	1	-21056	404115	0	2	+	4, 26, 1	4, 20, 1	4, 4, 1	I_4, I_{20}^*, I_1	2 : 2
E1	1	-1	1	4	-7	0	1	-	1, 6, 1	1, 0, 1	1, 1, 1	I_1, I_0^*, I_1	3 : 2
E2	1	-1	1	-41	209	0	3	-	3, 6, 3	3, 0, 3	3, 1, 3	I_3, I_6^*, I_2	3 : 1, 3

TABLE 1: ELLIPTIC CURVES 235A–240C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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235 $N = 235 = 5 \cdot 47$ (3 isogeny classes)**235**

A1	1	1	1	-5	0	1	1	+	3, 1	3, 1	3, 1	I_3, I_1	
B1	1	1	1	-3551	-82926	0	1	+	9, 1	9, 1	1, 1	I_9, I_1	
C1	0	-1	1	4	1	0	1	-	3, 1	3, 1	1, 1	I_3, I_1	

236 $N = 236 = 2^2 \cdot 59$ (2 isogeny classes)**236**

A1	0	-1	0	-1	2	1	1	-	4, 1	0, 1	3, 1	IV, I_1	
B1	0	1	0	-9	8	0	3	-	4, 1	0, 1	3, 1	IV, I_1	3 : 2
B2	0	1	0	31	68	0	1	-	4, 3	0, 3	1, 1	IV, I_3	3 : 1

238 $N = 238 = 2 \cdot 7 \cdot 17$ (5 isogeny classes)**238**

A1	1	0	0	-60	16	1	2	+	14, 2, 1	14, 2, 1	14, 2, 1	I_{14}, I_2, I_1	2 : 2
A2	1	0	0	-700	7056	1	2	+	7, 4, 2	7, 4, 2	7, 4, 2	I_7, I_4, I_2	2 : 1
B1	1	-1	0	2	0	1	2	-	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
B2	1	-1	0	-8	6	1	2	+	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1
C1	1	-1	1	-19	35	0	4	+	4, 2, 1	4, 2, 1	4, 2, 1	I_4, I_2, I_1	2 : 2
C2	1	-1	1	-39	-37	0	4	+	2, 4, 2	2, 4, 2	2, 4, 2	I_2, I_4, I_2	2 : 1, 3, 4
C3	1	-1	1	-529	-4545	0	2	+	1, 2, 4	1, 2, 4	1, 2, 4	I_1, I_2, I_4	2 : 2
C4	1	-1	1	131	-377	0	2	-	1, 8, 1	1, 8, 1	1, 8, 1	I_1, I_8, I_1	2 : 2
D1	1	1	1	-18	-37	0	2	+	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	2 : 2
D2	1	1	1	-28	-5	0	2	+	1, 4, 2	1, 4, 2	1, 2, 2	I_1, I_4, I_2	2 : 1
E1	1	1	0	32	0	0	2	-	10, 1, 2	10, 1, 2	2, 1, 2	I_{10}, I_1, I_2	2 : 2
E2	1	1	0	-128	-160	0	2	+	5, 2, 4	5, 2, 4	1, 2, 2	I_5, I_2, I_4	2 : 1

240 $N = 240 = 2^4 \cdot 3 \cdot 5$ (4 isogeny classes)**240**

A1	0	-1	0	-15	-18	0	2	+	4, 2, 1	0, 2, 1	1, 2, 1	II, I_2, I_1	2 : 2
A2	0	-1	0	-20	0	0	4	+	8, 4, 2	0, 4, 2	2, 2, 2	I_0^*, I_4, I_2	2 : 1, 3, 4
A3	0	-1	0	-200	1152	0	8	+	10, 2, 4	0, 2, 4	4, 2, 4	I_2^*, I_2, I_4	2 : 2, 5, 6
A4	0	-1	0	80	-80	0	2	-	10, 8, 1	0, 8, 1	2, 2, 1	I_2^*, I_8, I_1	2 : 2
A5	0	-1	0	-3200	70752	0	4	+	11, 1, 2	0, 1, 2	4, 1, 2	I_3^*, I_1, I_2	2 : 3
A6	0	-1	0	-80	2400	0	4	-	11, 1, 8	0, 1, 8	2, 1, 8	I_3^*, I_1, I_8	2 : 3
B1	0	-1	0	24	-144	0	2	-	16, 3, 1	4, 3, 1	4, 1, 1	I_8^*, I_3, I_1	2 : 2; 3 : 3
B2	0	-1	0	-296	-1680	0	4	+	14, 6, 2	2, 6, 2	4, 2, 2	I_6^*, I_6, I_2	2 : 1, 4, 5; 3 : 6
B3	0	-1	0	-216	4080	0	2	-	24, 1, 3	12, 1, 3	4, 1, 1	I_{16}^*, I_1, I_3	2 : 6; 3 : 1
B4	0	-1	0	-4616	-119184	0	2	+	13, 3, 4	1, 3, 4	4, 1, 2	I_5^*, I_3, I_4	2 : 2; 3 : 7
B5	0	-1	0	-1096	12400	0	2	+	13, 12, 1	1, 12, 1	2, 2, 1	I_5^*, I_{12}, I_1	2 : 2; 3 : 8
B6	0	-1	0	-5336	151536	0	4	+	18, 2, 6	6, 2, 6	4, 2, 2	I_{10}^*, I_2, I_6	2 : 3, 7, 8; 3 : 2
B7	0	-1	0	-7256	34800	0	2	+	15, 1, 12	3, 1, 12	4, 1, 2	I_7^*, I_1, I_{12}	2 : 6; 3 : 4
B8	0	-1	0	-85336	9623536	0	2	+	15, 4, 3	3, 4, 3	2, 2, 1	I_7^*, I_4, I_3	2 : 6; 3 : 5
C1	0	-1	0	4	0	1	2	-	8, 1, 1	0, 1, 1	2, 1, 1	I_0^*, I_1, I_1	2 : 2
C2	0	-1	0	-16	16	1	4	+	10, 2, 2	0, 2, 2	4, 2, 2	I_2^*, I_2, I_2	2 : 1, 3, 4
C3	0	-1	0	-136	-560	1	2	+	11, 1, 4	0, 1, 4	2, 1, 2	I_1^*, I_1, I_4	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
240	$N = 240 = 2^4 \cdot 3 \cdot 5$ (continued)												240
D1	0	1	0	0	-12	0	2	-	12, 1, 1	0, 1, 1	4, 1, 1	I_4^*, I_1, I_1	2 : 2
D2	0	1	0	-80	-300	0	4	+	12, 2, 2	0, 2, 2	4, 2, 2	I_4^*, I_2, I_2	2 : 1, 3, 4
D3	0	1	0	-1280	-18060	0	2	+	12, 1, 1	0, 1, 1	2, 1, 1	I_4^*, I_1, I_1	2 : 2
D4	0	1	0	-160	308	0	8	+	12, 4, 4	0, 4, 4	4, 4, 4	I_4^*, I_4, I_4	2 : 2, 5, 6
D5	0	1	0	-2160	37908	0	8	+	12, 8, 2	0, 8, 2	4, 8, 2	I_4^*, I_8, I_2	2 : 4, 7, 8
D6	0	1	0	560	2900	0	4	-	12, 2, 8	0, 2, 8	2, 2, 8	I_4^*, I_2, I_8	2 : 4
D7	0	1	0	-34560	2461428	0	4	+	12, 4, 1	0, 4, 1	4, 4, 1	I_4^*, I_4, I_1	2 : 5
D8	0	1	0	-1760	52788	0	4	-	12, 16, 1	0, 16, 1	2, 16, 1	I_4^*, I_{16}, I_1	2 : 5
242	$N = 242 = 2 \cdot 11^2$ (2 isogeny classes)												242
A1	1	0	0	3	1	1	1	-	4, 2	4, 0	4, 1	I_4, II	3 : 2
A2	1	0	0	-52	144	1	1	-	12, 2	12, 0	12, 1	I_{12}, II	3 : 1
B1	1	0	1	360	-970	0	3	-	4, 8	4, 0	2, 3	I_4, IV^*	3 : 2
B2	1	0	1	-6295	-197958	0	1	-	12, 8	12, 0	2, 1	I_{12}, IV^*	3 : 1
243	$N = 243 = 3^5$ (2 isogeny classes)												243
A1	0	0	1	0	-1	1	1	-	5	0	1	II	3 : 2
A2	0	0	1	0	20	1	3	-	11	0	3	IV^*	3 : 1
B1	0	0	1	0	2	0	3	-	7	0	3	IV	3 : 2
B2	0	0	1	0	-61	0	1	-	13	0	1	II^*	3 : 1
244	$N = 244 = 2^2 \cdot 61$ (1 isogeny class)												244
A1	0	0	0	1	6	1	1	-	8, 1	0, 1	3, 1	IV^*, I_1	
245	$N = 245 = 5 \cdot 7^2$ (3 isogeny classes)												245
A1	0	0	1	-7	12	1	1	-	3, 3	3, 0	3, 2	I_3, III	
B1	0	0	1	-343	-4202	0	1	-	3, 9	3, 0	1, 2	I_3, III^*	
C1	0	-1	1	-65	-204	1	1	-	1, 7	1, 1	1, 4	I_1, I_1^*	3 : 2
C2	0	-1	1	425	433	1	1	-	3, 9	3, 3	3, 4	I_3, I_3^*	3 : 1, 3
C3	0	-1	1	-6435	210006	1	1	-	9, 7	9, 1	9, 4	I_9, I_1^*	3 : 2
246	$N = 246 = 2 \cdot 3 \cdot 41$ (7 isogeny classes)												246
A1	1	1	1	-270	-1821	0	1	-	3, 7, 1	3, 7, 1	3, 1, 1	I_3, I_7, I_1	
B1	1	0	0	-175	-27847	0	5	-	25, 5, 1	25, 5, 1	25, 5, 1	I_{25}, I_5, I_1	5 : 2
B2	1	0	0	-579535	-169860007	0	1	-	5, 1, 5	5, 1, 5	5, 1, 5	I_5, I_1, I_5	5 : 1
C1	1	0	1	-453897	-117739700	0	2	+	14, 12, 1	14, 12, 1	2, 12, 1	I_{14}, I_{12}, I_1	2 : 2
C2	1	0	1	-453257	-118088116	0	2	-	7, 24, 2	7, 24, 2	1, 24, 2	I_7, I_{24}, I_2	2 : 1
D1	1	1	0	-66	180	1	2	+	6, 4, 1	6, 4, 1	2, 2, 1	I_6, I_4, I_1	2 : 2
D2	1	1	0	-26	444	1	2	-	3, 8, 2	3, 8, 2	1, 2, 2	I_3, I_8, I_2	2 : 1
E1	1	0	0	-9	9	0	4	+	4, 2, 1	4, 2, 1	4, 2, 1	I_4, I_2, I_1	2 : 2
E2	1	0	0	-29	-51	0	4	+	2, 4, 2	2, 4, 2	2, 4, 2	I_2, I_4, I_2	2 : 1, 3, 4
E3	1	0	0	-439	-3577	0	2	+	1, 8, 1	1, 8, 1	1, 8, 1	I_1, I_8, I_1	2 : 2
E4	1	0	0	61	-285	0	2	-	1, 2, 4	1, 2, 4	1, 2, 4	I_1, I_2, I_4	2 : 2
F1	1	0	1	-2	2	0	3	-	1, 3, 1	1, 3, 1	1, 3, 1	I_1, I_3, I_1	3 : 2
F2	1	0	1	13	-58	0	1	-	3, 1, 3	3, 1, 3	1, 1, 1	I_3, I_1, I_3	3 : 1

TABLE 1: ELLIPTIC CURVES 248A–258C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
248	$N = 248 = 2^3 \cdot 31$ (3 isogeny classes)												248
A1	0	1	0	0	1	1	1	–	4, 1	0, 1	2, 1	III, I ₁	
B1	0	1	0	8	0	0	2	–	10, 1	0, 1	2, 1	III*, I ₁	2 : 2
B2	0	1	0	–32	–32	0	2	+	11, 2	0, 2	1, 2	II*, I ₂	2 : 1
C1	0	0	0	1	–1	1	1	–	4, 1	0, 1	2, 1	III, I ₁	
249	$N = 249 = 3 \cdot 83$ (2 isogeny classes)												249
A1	1	1	1	–55	134	1	1	–	3, 1	3, 1	1, 1	I ₃ , I ₁	
B1	1	1	0	2	1	1	1	–	1, 1	1, 1	1, 1	I ₁ , I ₁	
252	$N = 252 = 2^2 \cdot 3^2 \cdot 7$ (2 isogeny classes)												252
A1	0	0	0	60	61	0	2	–	4, 9, 2	0, 3, 2	1, 2, 2	IV, I ₃ *, I ₂	2 : 2; 3 : 3
A2	0	0	0	–255	502	0	2	+	8, 12, 1	0, 6, 1	1, 4, 1	IV*, I ₆ *, I ₁	2 : 1; 3 : 4
A3	0	0	0	–1020	12913	0	6	–	4, 7, 6	0, 1, 6	3, 2, 6	IV, I ₁ *, I ₆	2 : 4; 3 : 1
A4	0	0	0	–16455	812446	0	6	+	8, 8, 3	0, 2, 3	3, 4, 3	IV*, I ₂ *, I ₃	2 : 3; 3 : 2
B1	0	0	0	–12	65	1	2	–	4, 7, 2	0, 1, 2	3, 4, 2	IV, I ₁ *, I ₂	2 : 2
B2	0	0	0	–327	2270	1	2	+	8, 8, 1	0, 2, 1	3, 4, 1	IV*, I ₂ *, I ₁	2 : 1
254	$N = 254 = 2 \cdot 127$ (4 isogeny classes)												254
A1	1	0	0	–22	36	1	3	+	9, 1	9, 1	9, 1	I ₉ , I ₁	3 : 2
A2	1	0	0	–302	–2036	1	3	+	3, 3	3, 3	3, 3	I ₃ , I ₃	3 : 1, 3
A3	1	0	0	–24432	–1471934	1	1	+	1, 1	1, 1	1, 1	I ₁ , I ₁	3 : 2
B1	1	0	0	2	0	0	2	–	2, 1	2, 1	2, 1	I ₂ , I ₁	2 : 2
B2	1	0	0	–8	–2	0	2	+	1, 2	1, 2	1, 2	I ₁ , I ₂	2 : 1
C1	1	–1	0	–5	–3	1	1	+	3, 1	3, 1	1, 1	I ₃ , I ₁	
D1	1	–1	1	–19	51	0	4	–	12, 1	12, 1	12, 1	I ₁₂ , I ₁	2 : 2
D2	1	–1	1	–339	2483	0	4	+	6, 2	6, 2	6, 2	I ₆ , I ₂	2 : 1, 3, 4
D3	1	–1	1	–379	1891	0	2	+	3, 4	3, 4	3, 2	I ₃ , I ₄	2 : 2
D4	1	–1	1	–5419	154883	0	2	+	3, 1	3, 1	3, 1	I ₃ , I ₁	2 : 2
256	$N = 256 = 2^8$ (4 isogeny classes)												256
A1	0	1	0	–3	1	1	2	+	9	0	2	III	2 : 2
A2	0	1	0	–13	–21	1	2	+	15	0	2	III*	2 : 1
B1	0	0	0	–2	0	1	2	+	9	0	2	III	2 : 2
B2	0	0	0	8	0	1	2	–	15	0	2	III*	2 : 1
C1	0	0	0	2	0	0	2	–	9	0	2	III	2 : 2
C2	0	0	0	–8	0	0	2	+	15	0	2	III*	2 : 1
D1	0	–1	0	–3	–1	0	2	+	9	0	2	III	2 : 2
D2	0	–1	0	–13	21	0	2	+	15	0	2	III*	2 : 1
258	$N = 258 = 2 \cdot 3 \cdot 43$ (7 isogeny classes)												258
A1	1	1	0	3	–3	1	1	–	6, 1, 1	6, 1, 1	2, 1, 1	I ₆ , I ₁ , I ₁	
B1	1	1	0	–1916	31440	0	2	+	14, 7, 1	14, 7, 1	2, 1, 1	I ₁₄ , I ₇ , I ₁	2 : 2
B2	1	1	0	–1276	53584	0	2	–	7, 14, 2	7, 14, 2	1, 2, 2	I ₇ , I ₁₄ , I ₂	2 : 1

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
258	$N = 258 = 2 \cdot 3 \cdot 43$ (continued)												258
D1	1	1	1	-24	-39	0	4	+	12, 1, 1	12, 1, 1	12, 1, 1	I_{12}, I_1, I_1	2 : 2
D2	1	1	1	-344	-2599	0	4	+	6, 2, 2	6, 2, 2	6, 2, 2	I_6, I_2, I_2	2 : 1, 3, 4
D3	1	1	1	-5504	-159463	0	2	+	3, 1, 1	3, 1, 1	3, 1, 1	I_3, I_1, I_1	2 : 2
D4	1	1	1	-304	-3175	0	2	-	3, 4, 4	3, 4, 4	3, 2, 2	I_3, I_4, I_4	2 : 2
E1	1	1	1	-44124	3549153	0	1	-	2, 19, 1	2, 19, 1	2, 1, 1	I_2, I_{19}, I_1	
F1	1	0	0	159	1737	0	7	-	14, 7, 1	14, 7, 1	14, 7, 1	I_{14}, I_7, I_1	7 : 2
F2	1	0	0	-59901	-5648523	0	1	-	2, 1, 7	2, 1, 7	2, 1, 7	I_2, I_1, I_7	7 : 1
G1	1	0	0	-2	0	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
G2	1	0	0	8	2	0	2	-	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1
259	$N = 259 = 7 \cdot 37$ (1 isogeny class)												259
A1	1	-1	0	-5	-32	0	2	-	3, 2	3, 2	3, 2	I_3, I_2	2 : 2
A2	1	-1	0	-190	-957	0	2	+	6, 1	6, 1	6, 1	I_6, I_1	2 : 1
260	$N = 260 = 2^2 \cdot 5 \cdot 13$ (1 isogeny class)												260
A1	0	-1	0	-281	1910	0	2	+	4, 1, 2	0, 1, 2	1, 1, 2	IV, I_1, I_2	2 : 2
A2	0	-1	0	-276	1976	0	2	-	8, 2, 4	0, 2, 4	1, 2, 2	IV^*, I_2, I_4	2 : 1
262	$N = 262 = 2 \cdot 131$ (2 isogeny classes)												262
A1	1	0	0	1	25	1	1	-	11, 1	11, 1	11, 1	I_{11}, I_1	
B1	1	-1	0	-2	2	1	1	-	1, 1	1, 1	1, 1	I_1, I_1	
264	$N = 264 = 2^3 \cdot 3 \cdot 11$ (4 isogeny classes)												264
A1	0	1	0	-8	0	0	2	+	10, 1, 1	0, 1, 1	2, 1, 1	III^*, I_1, I_1	2 : 2
A2	0	1	0	32	32	0	2	-	11, 2, 2	0, 2, 2	1, 2, 2	II^*, I_2, I_2	2 : 1
B1	0	-1	0	-12	-12	0	2	+	8, 1, 1	0, 1, 1	2, 1, 1	I_1^*, I_1, I_1	2 : 2
B2	0	-1	0	-32	60	0	4	+	10, 2, 2	0, 2, 2	2, 2, 2	III^*, I_2, I_2	2 : 1, 3, 4
B3	0	-1	0	-472	4108	0	2	+	11, 4, 1	0, 4, 1	1, 2, 1	II^*, I_4, I_1	2 : 2
B4	0	-1	0	88	300	0	2	-	11, 1, 4	0, 1, 4	1, 1, 4	II^*, I_1, I_4	2 : 2
C1	0	1	0	1	6	0	4	-	4, 4, 1	0, 4, 1	2, 4, 1	III, I_4, I_1	2 : 2
C2	0	1	0	-44	96	0	4	+	8, 2, 2	0, 2, 2	2, 2, 2	I_1^*, I_2, I_2	2 : 1, 3, 4
C3	0	1	0	-104	-288	0	2	+	10, 1, 4	0, 1, 4	2, 1, 2	III^*, I_1, I_4	2 : 2
C4	0	1	0	-704	6960	0	2	+	10, 1, 1	0, 1, 1	2, 1, 1	III^*, I_1, I_1	2 : 2
D1	0	1	0	-8016	-278928	0	2	+	10, 7, 1	0, 7, 1	2, 7, 1	III^*, I_7, I_1	2 : 2
D2	0	1	0	-7976	-281808	0	2	-	11, 14, 2	0, 14, 2	1, 14, 2	II^*, I_{14}, I_2	2 : 1
265	$N = 265 = 5 \cdot 53$ (1 isogeny class)												265
A1	1	-1	1	-138	656	1	2	+	3, 1	3, 1	1, 1	I_3, I_1	2 : 2
A2	1	-1	1	-133	702	1	2	-	6, 2	6, 2	2, 2	I_6, I_2	2 : 1
267	$N = 267 = 3 \cdot 89$ (2 isogeny classes)												267
A1	0	1	1	-3	2	0	3	-	3, 1	3, 1	3, 1	I_3, I_1	3 : 2
A2	0	1	1	27	-37	0	1	-	1, 3	1, 3	1, 1	I_1, I_3	3 : 1

TABLE 1: ELLIPTIC CURVES 268A–275A

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
268	$N = 268 = 2^2 \cdot 67$ (1 isogeny class)												268
A1	0	-1	0	3	-7	0	1	-	8, 1	0, 1	1, 1	IV*, I ₁	
269	$N = 269 = 269$ (1 isogeny class)												269
A1	0	0	1	-2	-1	1	1	+	1	1	1	I ₁	
270	$N = 270 = 2 \cdot 3^3 \cdot 5$ (4 isogeny classes)												270
A1	1	-1	0	-15	35	0	3	-	1, 9, 1	1, 0, 1	1, 3, 1	I ₁ , IV*, I ₁	3 : 2
A2	1	-1	0	120	-424	0	1	-	3, 11, 3	3, 0, 3	1, 1, 1	I ₃ , II*, I ₃	3 : 1
B1	1	-1	1	7	-103	0	3	-	15, 3, 1	15, 0, 1	15, 1, 1	I ₁₅ , II, I ₁	3 : 2
B2	1	-1	1	-1433	-20519	0	1	-	5, 9, 3	5, 0, 3	5, 1, 1	I ₅ , IV*, I ₃	3 : 1
C1	1	-1	1	-2	-1	0	1	-	1, 3, 1	1, 0, 1	1, 1, 1	I ₁ , II, I ₁	3 : 2
C2	1	-1	1	13	11	0	3	-	3, 5, 3	3, 0, 3	3, 1, 3	I ₃ , IV, I ₃	3 : 1
D1	1	-1	0	-159	813	0	3	-	5, 3, 3	5, 0, 3	1, 1, 3	I ₅ , II, I ₃	3 : 2
D2	1	-1	0	66	2708	0	1	-	15, 9, 1	15, 0, 1	1, 1, 1	I ₁₅ , IV*, I ₁	3 : 1
272	$N = 272 = 2^4 \cdot 17$ (4 isogeny classes)												272
A1	0	1	0	-8	4	1	2	+	10, 1	0, 1	4, 1	I ₂ *, I ₁	2 : 2
A2	0	1	0	-48	-140	1	2	+	11, 2	0, 2	2, 2	I ₃ *, I ₂	2 : 1
B1	0	0	0	-11	-6	1	2	+	12, 1	0, 1	4, 1	I ₄ *, I ₁	2 : 2
B2	0	0	0	-91	330	1	4	+	12, 2	0, 2	4, 2	I ₄ *, I ₂	2 : 1, 3, 4
B3	0	0	0	-1451	21274	1	4	+	12, 1	0, 1	4, 1	I ₄ *, I ₁	2 : 2
B4	0	0	0	-11	890	1	4	-	12, 4	0, 4	2, 4	I ₄ *, I ₄	2 : 2
C1	0	-1	0	-4	0	0	2	+	8, 1	0, 1	2, 1	I ₀ *, I ₁	2 : 2
C2	0	-1	0	16	-16	0	2	-	10, 2	0, 2	2, 2	I ₂ *, I ₂	2 : 1
D1	0	-1	0	-48	-64	0	2	+	18, 1	6, 1	4, 1	I ₁₀ *, I ₁	2 : 2; 3 : 3
D2	0	-1	0	-688	-6720	0	2	+	15, 2	3, 2	4, 2	I ₇ *, I ₂	2 : 1; 3 : 4
D3	0	-1	0	-1648	26304	0	2	+	14, 3	2, 3	4, 1	I ₆ *, I ₃	2 : 4; 3 : 1
D4	0	-1	0	-1808	21056	0	2	+	13, 6	1, 6	4, 2	I ₅ *, I ₆	2 : 3; 3 : 2
273	$N = 273 = 3 \cdot 7 \cdot 13$ (2 isogeny classes)												273
A1	0	-1	1	-26	68	1	1	-	4, 3, 1	4, 3, 1	2, 3, 1	I ₄ , I ₃ , I ₁	
B1	0	1	1	2540	-157433	0	1	-	8, 7, 3	8, 7, 3	8, 1, 1	I ₈ , I ₇ , I ₃	
274	$N = 274 = 2 \cdot 137$ (3 isogeny classes)												274
A1	1	0	0	-7	9	1	1	-	7, 1	7, 1	7, 1	I ₇ , I ₁	
B1	1	-1	0	-2846	59156	1	1	-	11, 1	11, 1	1, 1	I ₁₁ , I ₁	
C1	1	-1	0	-2	0	1	2	+	2, 1	2, 1	2, 1	I ₂ , I ₁	2 : 2
C2	1	-1	0	8	-6	1	2	-	1, 2	1, 2	1, 2	I ₁ , I ₂	2 : 1
275	$N = 275 = 5^2 \cdot 11$ (2 isogeny classes)												275
A1	1	-1	1	20	22	1	4	-	7, 1	1, 1	4, 1	I ₁ *, I ₁	2 : 2
A2	1	-1	1	-105	272	1	4	+	8, 2	2, 2	4, 2	I ₂ *, I ₂	2 : 1, 3, 4
A3	1	-1	1	-730	-7228	1	2	+	7, 4	1, 4	4, 2	I ₁ *, I ₄	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
275	$N = 275 = 5^2 \cdot 11$ (continued)												275
B1	0	1	1	−8	19	0	1	−	6, 1	0, 1	1, 1	I_0^*, I_1	5 : 2
B2	0	1	1	−258	−2981	0	1	−	6, 5	0, 5	1, 5	I_0^*, I_5	5 : 1, 3
B3	0	1	1	−195508	−33338481	0	1	−	6, 1	0, 1	1, 1	I_0^*, I_1	5 : 2
277	$N = 277 = 277$ (1 isogeny class)												277
A1	1	0	1	0	−1	1	1	−	1	1	1	I_1	
278	$N = 278 = 2 \cdot 139$ (2 isogeny classes)												278
A1	1	0	0	−1	9	1	1	−	8, 1	8, 1	8, 1	I_8, I_1	
B1	1	0	1	−537	6908	0	3	−	12, 3	12, 3	2, 3	I_{12}, I_3	3 : 2, 3
B2	1	0	1	4328	−100122	0	1	−	36, 1	36, 1	2, 1	I_{36}, I_1	3 : 1
B3	1	0	1	−602	5628	0	3	−	4, 1	4, 1	2, 1	I_4, I_1	3 : 1
280	$N = 280 = 2^3 \cdot 5 \cdot 7$ (2 isogeny classes)												280
A1	0	−1	0	−1	5	1	1	−	8, 1, 1	0, 1, 1	4, 1, 1	I_1^*, I_1, I_1	
B1	0	0	0	−412	3316	1	1	−	8, 5, 3	0, 5, 3	4, 5, 3	I_1^*, I_5, I_3	
282	$N = 282 = 2 \cdot 3 \cdot 47$ (2 isogeny classes)												282
A1	1	1	1	58	−61	0	4	−	12, 4, 1	12, 4, 1	12, 2, 1	I_{12}, I_4, I_1	2 : 2
A2	1	1	1	−262	−829	0	4	+	6, 8, 2	6, 8, 2	6, 2, 2	I_6, I_8, I_2	2 : 1, 3, 4
A3	1	1	1	−3502	−81181	0	2	+	3, 4, 4	3, 4, 4	3, 2, 2	I_3, I_4, I_4	2 : 2
A4	1	1	1	−2142	36771	0	2	+	3, 16, 1	3, 16, 1	3, 2, 1	I_3, I_{16}, I_1	2 : 2
B1	1	1	1	−15	21	1	2	−	8, 2, 1	8, 2, 1	8, 2, 1	I_8, I_2, I_1	2 : 2
B2	1	1	1	−255	1461	1	2	+	4, 1, 2	4, 1, 2	4, 1, 2	I_4, I_1, I_2	2 : 1
285	$N = 285 = 3 \cdot 5 \cdot 19$ (3 isogeny classes)												285
A1	1	0	0	19	0	1	2	−	5, 1, 2	5, 1, 2	5, 1, 2	I_5, I_1, I_2	2 : 2
A2	1	0	0	−76	−19	1	2	+	10, 2, 1	10, 2, 1	10, 2, 1	I_{10}, I_2, I_1	2 : 1
B1	1	1	0	2	−17	1	2	−	1, 3, 2	1, 3, 2	1, 1, 2	I_1, I_3, I_2	2 : 2
B2	1	1	0	−93	−378	1	2	+	2, 6, 1	2, 6, 1	2, 2, 1	I_2, I_6, I_1	2 : 1
C1	1	1	0	23	−176	0	2	−	8, 3, 1	8, 3, 1	2, 3, 1	I_8, I_3, I_1	2 : 2
C2	1	1	0	−382	−2849	0	4	+	4, 6, 2	4, 6, 2	2, 6, 2	I_4, I_6, I_2	2 : 1, 3, 4
C3	1	1	0	−6007	−181724	0	2	+	2, 3, 4	2, 3, 4	2, 3, 2	I_2, I_3, I_4	2 : 2
C4	1	1	0	−1237	13054	0	4	+	2, 12, 1	2, 12, 1	2, 12, 1	I_2, I_{12}, I_1	2 : 2
286	$N = 286 = 2 \cdot 11 \cdot 13$ (6 isogeny classes)												286
A1	1	0	1	−7	42	0	3	−	5, 1, 3	5, 1, 3	1, 1, 3	I_5, I_1, I_3	3 : 2
A2	1	0	1	58	−1128	0	1	−	15, 3, 1	15, 3, 1	1, 1, 1	I_{15}, I_3, I_1	3 : 1
B1	1	1	1	13	177	1	1	−	13, 2, 1	13, 2, 1	13, 2, 1	I_{13}, I_2, I_1	
C1	1	1	0	−33	61	1	1	−	3, 2, 1	3, 2, 1	1, 2, 1	I_3, I_2, I_1	
D1	1	1	1	280	393	0	5	−	5, 2, 5	5, 2, 5	5, 2, 5	I_5, I_2, I_5	5 : 2
D2	1	1	1	−27930	−1808687	0	1	−	1, 10, 1	1, 10, 1	1, 10, 1	I_1, I_{10}, I_1	5 : 1
E1	1	1	1	−66	−313	0	1	−	3, 5, 1	3, 5, 1	3, 1, 1	I_3, I_5, I_1	

TABLE 1: ELLIPTIC CURVES 288A–294B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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288 $N = 288 = 2^5 \cdot 3^2$ (5 isogeny classes)**288**

A1	0	0	0	3	0	1	2	−	6, 3	0, 0	2, 2	III, III	2 : 2
A2	0	0	0	−12	0	1	2	+	12, 3	0, 0	4, 2	I ₃ [*] , III	2 : 1
B1	0	0	0	−21	−20	1	4	+	6, 8	0, 2	2, 4	III, I ₂ [*]	2 : 2, 3, 4
B2	0	0	0	−291	−1910	1	2	+	9, 7	0, 1	1, 2	I ₀ [*] , I ₁ [*]	2 : 1
B3	0	0	0	−156	736	1	4	+	12, 7	0, 1	4, 4	I ₃ [*] , I ₁ [*]	2 : 1
B4	0	0	0	69	−146	1	2	−	9, 10	0, 4	2, 4	I ₀ [*] , I ₄ [*]	2 : 1
C1	0	0	0	−21	20	0	4	+	6, 8	0, 2	2, 4	III, I ₂ [*]	2 : 2, 3, 4
C2	0	0	0	−156	−736	0	2	+	12, 7	0, 1	2, 2	I ₃ [*] , I ₁ [*]	2 : 1
C3	0	0	0	−291	1910	0	4	+	9, 7	0, 1	2, 4	I ₀ [*] , I ₁ [*]	2 : 1
C4	0	0	0	69	146	0	2	−	9, 10	0, 4	1, 4	I ₀ [*] , I ₄ [*]	2 : 1
D1	0	0	0	−9	0	0	4	+	6, 6	0, 0	2, 4	III, I ₀ [*]	2 : 2, 3, 4
D2	0	0	0	−99	−378	0	2	+	9, 6	0, 0	2, 2	I ₀ [*] , I ₀ [*]	2 : 1
D3	0	0	0	−99	378	0	2	+	9, 6	0, 0	1, 2	I ₀ [*] , I ₀ [*]	2 : 1
D4	0	0	0	36	0	0	2	−	12, 6	0, 0	2, 2	I ₃ [*] , I ₀ [*]	2 : 1
E1	0	0	0	27	0	0	2	−	6, 9	0, 0	2, 2	III, III [*]	2 : 2
E2	0	0	0	−108	0	0	2	+	12, 9	0, 0	2, 2	I ₃ [*] , III [*]	2 : 1

289 $N = 289 = 17^2$ (1 isogeny class)**289**

A1	1	−1	1	−199	510	1	4	+	7	1	4	I ₁ [*]	2 : 2
A2	1	−1	1	−1644	−24922	1	4	+	8	2	4	I ₂ [*]	2 : 1, 3, 4
A3	1	−1	1	−26209	−1626560	1	2	+	7	1	4	I ₁ [*]	2 : 2
A4	1	−1	1	−199	−68272	1	2	−	10	4	4	I ₄ [*]	2 : 2

290 $N = 290 = 2 \cdot 5 \cdot 29$ (1 isogeny class)**290**

A1	1	−1	0	−70	−204	1	2	+	8, 3, 1	8, 3, 1	2, 1, 1	I ₈ , I ₃ , I ₁	2 : 2
A2	1	−1	0	10	−700	1	2	−	4, 6, 2	4, 6, 2	2, 2, 2	I ₄ , I ₆ , I ₂	2 : 1

291 $N = 291 = 3 \cdot 97$ (4 isogeny classes)**291**

A1	0	−1	1	−2174	151262	0	1	−	23, 1	23, 1	1, 1	I ₂₃ , I ₁	
B1	1	1	1	−169	686	0	4	+	8, 2	8, 2	2, 2	I ₈ , I ₂	2 : 2, 3, 4
B2	1	1	1	−654	−5910	0	2	+	16, 1	16, 1	2, 1	I ₁₆ , I ₁	2 : 1
B3	1	1	1	−164	740	0	4	+	4, 1	4, 1	2, 1	I ₄ , I ₁	2 : 1
B4	1	1	1	236	3926	0	4	−	4, 4	4, 4	2, 4	I ₄ , I ₄	2 : 1
C1	1	1	1	−3	0	1	2	+	2, 1	2, 1	2, 1	I ₂ , I ₁	2 : 2
C2	1	1	1	−18	−36	1	2	+	1, 2	1, 2	1, 2	I ₁ , I ₂	2 : 1
D1	0	−1	1	0	−1	0	1	−	1, 1	1, 1	1, 1	I ₁ , I ₁	

294 $N = 294 = 2 \cdot 3 \cdot 7^2$ (7 isogeny classes)**294**

A1	1	1	1	−50	293	0	1	−	1, 1, 8	1, 1, 0	1, 1, 1	I ₁ , I ₁ , IV [*]	7 : 2
A2	1	1	1	−6910	−232261	0	1	−	7, 7, 8	7, 7, 0	7, 1, 1	I ₇ , I ₇ , IV [*]	7 : 1
B1	1	0	0	−1	−1	0	1	−	1, 1, 2	1, 1, 0	1, 1, 1	I ₁ , I ₁ , II	7 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
294	$N = 294 = 2 \cdot 3 \cdot 7^2$ (continued)												294
C1	1	0	0	-197	-2367	0	4	-	8, 2, 7	8, 2, 1	8, 2, 4	I_8, I_2, I_1^*	2 : 2
C2	1	0	0	-4117	-101935	0	4	+	4, 4, 8	4, 4, 2	4, 4, 4	I_4, I_4, I_2^*	2 : 1, 3, 4
C3	1	0	0	-65857	-6510547	0	2	+	2, 2, 7	2, 2, 1	2, 2, 2	I_2, I_2, I_1^*	2 : 2
C4	1	0	0	-5097	-49995	0	4	+	2, 8, 10	2, 8, 4	2, 8, 4	I_2, I_8, I_4^*	2 : 2, 5, 6
C5	1	0	0	-44787	3609423	0	2	+	1, 4, 14	1, 4, 8	1, 4, 4	I_1, I_4, I_8^*	2 : 4
C6	1	0	0	18913	-381333	0	2	-	1, 16, 8	1, 16, 2	1, 16, 2	I_1, I_{16}, I_2^*	2 : 4
D1	1	0	1	23	-52	0	3	-	5, 3, 4	5, 3, 0	1, 3, 3	I_5, I_3, IV	3 : 2
D2	1	0	1	-712	-7402	0	1	-	15, 1, 4	15, 1, 0	1, 1, 3	I_{15}, I_1, IV	3 : 1
E1	1	1	0	1151	18901	0	1	-	5, 3, 10	5, 3, 0	1, 1, 1	I_5, I_3, II^*	3 : 2
E2	1	1	0	-34864	2503936	0	1	-	15, 1, 10	15, 1, 0	1, 1, 1	I_{15}, I_1, II^*	3 : 1
F1	1	1	0	122	-10940	0	2	-	4, 4, 9	4, 4, 0	2, 2, 2	I_4, I_4, III^*	2 : 2
F2	1	1	0	-6738	-209880	0	2	+	2, 8, 9	2, 8, 0	2, 2, 2	I_2, I_8, III^*	2 : 1
G1	1	0	1	2	32	1	2	-	4, 4, 3	4, 4, 0	2, 4, 2	I_4, I_4, III	2 : 2
G2	1	0	1	-138	592	1	2	+	2, 8, 3	2, 8, 0	2, 8, 2	I_2, I_8, III	2 : 1
296	$N = 296 = 2^3 \cdot 37$ (2 isogeny classes)												296
A1	0	-1	0	-9	13	1	1	+	8, 1	0, 1	4, 1	I_1^*, I_1	
B1	0	-1	0	-33	85	1	1	+	8, 1	0, 1	2, 1	I_1^*, I_1	
297	$N = 297 = 3^3 \cdot 11$ (4 isogeny classes)												297
A1	0	0	1	-81	290	1	1	-	9, 2	0, 2	3, 2	IV^*, I_2	
B1	1	-1	1	1	0	1	1	-	3, 1	0, 1	1, 1	II, I_1	
C1	1	-1	0	12	-19	1	1	-	9, 1	0, 1	3, 1	IV^*, I_1	
D1	0	0	1	-9	-11	0	1	-	3, 2	0, 2	1, 2	II, I_2	
298	$N = 298 = 2 \cdot 149$ (2 isogeny classes)												298
A1	1	0	0	-19	33	1	1	-	9, 1	9, 1	9, 1	I_9, I_1	
B1	1	-1	0	1	-1	1	1	-	1, 1	1, 1	1, 1	I_1, I_1	
300	$N = 300 = 2^2 \cdot 3 \cdot 5^2$ (4 isogeny classes)												300
A1	0	-1	0	-13	-23	0	1	-	8, 3, 2	0, 3, 0	1, 1, 1	IV^*, I_3, II	3 : 2
A2	0	-1	0	-1213	-15863	0	1	-	8, 1, 2	0, 1, 0	3, 1, 1	IV^*, I_1, II	3 : 1
B1	0	1	0	-333	-3537	0	3	-	8, 3, 8	0, 3, 0	3, 3, 3	IV^*, I_3, IV^*	3 : 2
B2	0	1	0	-30333	-2043537	0	1	-	8, 1, 8	0, 1, 0	1, 1, 1	IV^*, I_1, IV^*	3 : 1
C1	0	1	0	-333	2088	0	2	+	4, 2, 9	0, 2, 0	1, 2, 2	IV, I_2, III^*	2 : 2
C2	0	1	0	292	9588	0	2	-	8, 4, 9	0, 4, 0	1, 4, 2	IV^*, I_4, III^*	2 : 1
D1	0	-1	0	-13	22	1	2	+	4, 2, 3	0, 2, 0	3, 2, 2	IV, I_2, III	2 : 2
D2	0	-1	0	12	72	1	2	-	8, 4, 3	0, 4, 0	3, 2, 2	IV^*, I_4, III	2 : 1
302	$N = 302 = 2 \cdot 151$ (3 isogeny classes)												302
A1	1	1	1	-230	1251	1	5	-	15, 1	15, 1	15, 1	I_{15}, I_1	5 : 2
A2	1	1	1	1650	-27389	1	1	-	3, 5	3, 5	3, 5	I_3, I_5	5 : 1
B1	1	1	0	1	5	0	2	-	6, 1	6, 1	2, 1	I_6, I_1	2 : 2
B2	1	1	0	-39	77	0	2	+	3, 2	3, 2	1, 2	I_3, I_2	2 : 1

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
303	$N = 303 = 3 \cdot 101$ (2 isogeny classes)												303
A1	0	1	1	-197	-208	1	1	+	14, 1	14, 1	14, 1	I_{14}, I_1	
B1	0	1	1	-6	2	1	1	+	4, 1	4, 1	4, 1	I_4, I_1	
304	$N = 304 = 2^4 \cdot 19$ (6 isogeny classes)												304
A1	0	1	0	0	-76	1	1	-	17, 1	5, 1	4, 1	I_9^*, I_1	5 : 2
A2	0	1	0	-1120	15604	1	1	-	13, 5	1, 5	4, 5	I_5^*, I_5	5 : 1
B1	0	-1	0	-248	-1424	0	1	-	15, 1	3, 1	2, 1	I_7^*, I_1	3 : 2
B2	0	-1	0	152	-5776	0	1	-	21, 3	9, 3	2, 1	I_{13}^*, I_3	3 : 1, 3
B3	0	-1	0	-1368	157168	0	1	-	39, 1	27, 1	2, 1	I_{31}^*, I_1	3 : 2
C1	0	-1	0	-8	16	1	1	-	11, 1	0, 1	4, 1	I_3^*, I_1	
D1	0	-1	0	-1	-3	0	1	-	8, 1	0, 1	1, 1	I_0^*, I_1	
E1	0	-1	0	11	-3	0	1	-	12, 1	0, 1	1, 1	II^*, I_1	3 : 2
E2	0	-1	0	-149	797	0	1	-	12, 3	0, 3	1, 1	II^*, I_3	3 : 1, 3
E3	0	-1	0	-12309	529757	0	1	-	12, 1	0, 1	1, 1	II^*, I_1	3 : 2
F1	0	1	0	-21	31	1	1	-	8, 1	0, 1	2, 1	I_0^*, I_1	
306	$N = 306 = 2 \cdot 3^2 \cdot 17$ (4 isogeny classes)												306
A1	1	-1	1	-2300	-41857	0	2	+	6, 12, 1	6, 6, 1	6, 2, 1	I_6, I_6^*, I_1	2 : 2; 3 : 3
A2	1	-1	1	-1940	-55681	0	2	-	3, 18, 2	3, 12, 2	3, 4, 2	I_3, I_{12}^*, I_2	2 : 1; 3 : 4
A3	1	-1	1	-6755	163235	0	6	+	18, 8, 3	18, 2, 3	18, 2, 3	I_{18}, I_2^*, I_3	2 : 4; 3 : 1
A4	1	-1	1	16285	1020323	0	6	-	9, 10, 6	9, 4, 6	9, 4, 6	I_9, I_4^*, I_6	2 : 3; 3 : 2
B1	1	-1	0	-27	-27	1	2	+	6, 6, 1	6, 0, 1	2, 2, 1	I_6, I_0^*, I_1	2 : 2; 3 : 3
B2	1	-1	0	-387	-2835	1	2	+	3, 6, 2	3, 0, 2	1, 2, 2	I_3, I_0^*, I_2	2 : 1; 3 : 4
B3	1	-1	0	-927	11097	1	6	+	2, 6, 3	2, 0, 3	2, 2, 3	I_2, I_0^*, I_3	2 : 4; 3 : 1
B4	1	-1	0	-1017	8883	1	6	+	1, 6, 6	1, 0, 6	1, 2, 6	I_1, I_0^*, I_6	2 : 3; 3 : 2
C1	1	-1	0	-306	-1836	0	2	+	8, 10, 1	8, 4, 1	2, 2, 1	I_8, I_4^*, I_1	2 : 2
C2	1	-1	0	-1026	10692	0	4	+	4, 14, 2	4, 8, 2	2, 4, 2	I_4, I_8^*, I_2	2 : 1, 3, 4
C3	1	-1	0	-15606	754272	0	4	+	2, 10, 4	2, 4, 4	2, 4, 2	I_2, I_4^*, I_4	2 : 2, 5, 6
C4	1	-1	0	2034	60264	0	2	-	2, 22, 1	2, 16, 1	2, 4, 1	I_2, I_{16}^*, I_1	2 : 2
C5	1	-1	0	-249696	48087270	0	2	+	1, 8, 2	1, 2, 2	1, 2, 2	I_1, I_2^*, I_2	2 : 3
C6	1	-1	0	-14796	835434	0	2	-	1, 8, 8	1, 2, 8	1, 4, 2	I_1, I_2^*, I_8	2 : 3
D1	1	-1	1	-23	-21	0	2	+	2, 8, 1	2, 2, 1	2, 2, 1	I_2, I_2^*, I_1	2 : 2
D2	1	-1	1	67	-201	0	2	-	1, 10, 2	1, 4, 2	1, 4, 2	I_1, I_4^*, I_2	2 : 1
307	$N = 307 = 307$ (4 isogeny classes)												307
A1	0	0	1	-8	-9	0	1	-	1	1	1	I_1	
B1	1	1	0	0	-1	0	1	-	1	1	1	I_1	
C1	0	0	1	1	-1	0	1	-	1	1	1	I_1	
D1	0	-1	1	2	-1	0	1	-	1	1	1	I_1	
308	$N = 308 = 2^2 \cdot 7 \cdot 11$ (1 isogeny class)												308
A1	0	-1	0	-21	49	1	1	-	8, 2, 1	0, 2, 1	3, 2, 1	IV^*, I_2, I_1	
309	$N = 309 = 3 \cdot 103$ (1 isogeny class)												309

TABLE 1: ELLIPTIC CURVES 310A–318C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
310	$N = 310 = 2 \cdot 5 \cdot 31$ (2 isogeny classes)												310
A1	1	1	1	-66	-241	0	2	-	6, 4, 1	6, 4, 1	6, 2, 1	I_6, I_4, I_1	2 : 2
A2	1	1	1	-1066	-13841	0	2	+	3, 2, 2	3, 2, 2	3, 2, 2	I_3, I_2, I_2	2 : 1
B1	1	0	0	-106	420	1	6	-	12, 2, 1	12, 2, 1	12, 2, 1	I_{12}, I_2, I_1	2 : 2; 3 : 3
B2	1	0	0	-1706	26980	1	6	+	6, 1, 2	6, 1, 2	6, 1, 2	I_6, I_1, I_2	2 : 1; 3 : 4
B3	1	0	0	454	1876	1	2	-	4, 6, 3	4, 6, 3	4, 2, 3	I_4, I_6, I_3	2 : 4; 3 : 1
B4	1	0	0	-2046	15376	1	2	+	2, 3, 6	2, 3, 6	2, 1, 6	I_2, I_3, I_6	2 : 3; 3 : 2
312	$N = 312 = 2^3 \cdot 3 \cdot 13$ (6 isogeny classes)												312
A1	0	1	0	-3	-6	0	2	-	4, 1, 2	0, 1, 2	2, 1, 2	III, I_1, I_2	2 : 2
A2	0	1	0	-68	-240	0	2	+	8, 2, 1	0, 2, 1	2, 2, 1	I_1^*, I_2, I_1	2 : 1
B1	0	-1	0	-3	0	1	2	+	4, 2, 1	0, 2, 1	2, 2, 1	III, I_2, I_1	2 : 2
B2	0	-1	0	12	-12	1	2	-	8, 1, 2	0, 1, 2	2, 1, 2	I_1^*, I_1, I_2	2 : 1
C1	0	1	0	-7	2	0	4	+	4, 4, 1	0, 4, 1	2, 4, 1	III, I_4, I_1	2 : 2
C2	0	1	0	-52	-160	0	4	+	8, 2, 2	0, 2, 2	4, 2, 2	I_1^*, I_2, I_2	2 : 1, 3, 4
C3	0	1	0	-832	-9520	0	2	+	10, 1, 1	0, 1, 1	2, 1, 1	III^*, I_1, I_1	2 : 2
C4	0	1	0	8	-448	0	2	-	10, 1, 4	0, 1, 4	2, 1, 4	III^*, I_1, I_4	2 : 2
D1	0	-1	0	-39	108	0	4	+	4, 2, 1	0, 2, 1	2, 2, 1	III, I_2, I_1	2 : 2
D2	0	-1	0	-44	84	0	4	+	8, 4, 2	0, 4, 2	2, 2, 2	I_1^*, I_4, I_2	2 : 1, 3, 4
D3	0	-1	0	-304	-1892	0	2	+	10, 8, 1	0, 8, 1	2, 2, 1	III^*, I_8, I_1	2 : 2
D4	0	-1	0	136	444	0	4	-	10, 2, 4	0, 2, 4	2, 2, 4	III^*, I_2, I_4	2 : 2
E1	0	-1	0	-651	6228	0	2	+	4, 10, 3	0, 10, 3	2, 2, 1	III, I_{10}, I_3	2 : 2
E2	0	-1	0	564	25668	0	2	-	8, 5, 6	0, 5, 6	4, 1, 2	I_1^*, I_5, I_6	2 : 1
F1	0	1	0	5	14	1	2	-	4, 3, 2	0, 3, 2	2, 3, 2	III, I_3, I_2	2 : 2
F2	0	1	0	-60	144	1	2	+	8, 6, 1	0, 6, 1	4, 6, 1	I_1^*, I_6, I_1	2 : 1
314	$N = 314 = 2 \cdot 157$ (1 isogeny class)												314
A1	1	-1	0	13	-11	1	1	-	10, 1	10, 1	2, 1	I_{10}, I_1	
315	$N = 315 = 3^2 \cdot 5 \cdot 7$ (2 isogeny classes)												315
A1	0	0	1	-12	-18	0	1	-	6, 1, 1	0, 1, 1	1, 1, 1	I_0^*, I_1, I_1	3 : 2
A2	0	0	1	78	45	0	3	-	6, 3, 3	0, 3, 3	1, 3, 3	I_0^*, I_3, I_3	3 : 1, 3
A3	0	0	1	-1182	16362	0	3	-	6, 9, 1	0, 9, 1	1, 9, 1	I_0^*, I_9, I_1	3 : 2
B1	1	-1	1	-23	-34	1	2	+	7, 1, 1	1, 1, 1	2, 1, 1	I_1^*, I_1, I_1	2 : 2
B2	1	-1	1	-68	182	1	4	+	8, 2, 2	2, 2, 2	4, 2, 2	I_2^*, I_2, I_2	2 : 1, 3, 4
B3	1	-1	1	-1013	12656	1	2	+	7, 4, 1	1, 4, 1	4, 2, 1	I_1^*, I_4, I_1	2 : 2
B4	1	-1	1	157	992	1	2	-	10, 1, 4	4, 1, 4	4, 1, 4	I_4^*, I_1, I_4	2 : 2
316	$N = 316 = 2^2 \cdot 79$ (2 isogeny classes)												316
A1	0	-1	0	-180	-872	0	1	+	8, 1	0, 1	1, 1	IV^*, I_1	
B1	0	0	0	-7	-2	1	1	+	8, 1	0, 1	3, 1	IV^*, I_1	
318	$N = 318 = 2 \cdot 3 \cdot 53$ (5 isogeny classes)												318
A1	1	1	1	2	-7	0	1	-	1, 5, 1	1, 5, 1	1, 1, 1	I_1, I_5, I_1	
B1	1	0	1	-61	176	0	3	-	3, 3, 1	3, 3, 1	1, 3, 1	I_3, I_3, I_1	3 : 2
B2	1	0	1	44	722	0	1	-	9, 1, 3	9, 1, 3	1, 1, 1	I_9, I_1, I_3	3 : 1

TABLE 1: ELLIPTIC CURVES 318D–324B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
318	$N = 318 = 2 \cdot 3 \cdot 53$ (continued)												318
D1	1	1	1	-12	45	1	1	-	11, 2, 1	11, 2, 1	11, 2, 1	I_{11}, I_2, I_1	
E1	1	1	0	142	180	0	1	-	17, 3, 1	17, 3, 1	1, 1, 1	I_{17}, I_3, I_1	
319	$N = 319 = 11 \cdot 29$ (1 isogeny class)												319
A1	0	0	1	-37	-87	0	1	-	1, 2	1, 2	1, 2	I_1, I_2	
320	$N = 320 = 2^6 \cdot 5$ (6 isogeny classes)												320
A1	0	0	0	-8	-8	0	2	+	10, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
A2	0	0	0	-28	48	0	4	+	14, 2	0, 2	4, 2	I_4^*, I_2	2 : 1, 3, 4
A3	0	0	0	-428	3408	0	2	+	16, 1	0, 1	2, 1	I_6^*, I_1	2 : 2
A4	0	0	0	52	272	0	2	-	16, 4	0, 4	2, 2	I_6^*, I_4	2 : 2
B1	0	0	0	-8	8	1	2	+	10, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
B2	0	0	0	-28	-48	1	4	+	14, 2	0, 2	4, 2	I_4^*, I_2	2 : 1, 3, 4
B3	0	0	0	-428	-3408	1	2	+	16, 1	0, 1	2, 1	I_6^*, I_1	2 : 2
B4	0	0	0	52	-272	1	2	-	16, 4	0, 4	4, 2	I_6^*, I_4	2 : 2
C1	0	-1	0	-5	5	0	2	+	10, 1	0, 1	2, 1	I_0^*, I_1	2 : 2; 3 : 3
C2	0	-1	0	15	17	0	2	-	14, 2	0, 2	2, 2	I_4^*, I_2	2 : 1; 3 : 4
C3	0	-1	0	-165	-763	0	2	+	10, 3	0, 3	2, 3	I_0^*, I_3	2 : 4; 3 : 1
C4	0	-1	0	-145	-975	0	2	-	14, 6	0, 6	2, 6	I_4^*, I_6	2 : 3; 3 : 2
D1	0	-1	0	0	2	0	2	-	6, 2	0, 2	1, 2	II, I_2	2 : 2
D2	0	-1	0	-25	57	0	2	+	12, 1	0, 1	2, 1	I_2^*, I_1	2 : 1
E1	0	1	0	0	-2	0	2	-	6, 2	0, 2	1, 2	II, I_2	2 : 2
E2	0	1	0	-25	-57	0	2	+	12, 1	0, 1	2, 1	I_2^*, I_1	2 : 1
F1	0	1	0	-5	-5	1	2	+	10, 1	0, 1	2, 1	I_0^*, I_1	2 : 2; 3 : 3
F2	0	1	0	15	-17	1	2	-	14, 2	0, 2	4, 2	I_4^*, I_2	2 : 1; 3 : 4
F3	0	1	0	-165	763	1	2	+	10, 3	0, 3	2, 3	I_0^*, I_3	2 : 4; 3 : 1
F4	0	1	0	-145	975	1	2	-	14, 6	0, 6	4, 6	I_4^*, I_6	2 : 3; 3 : 2
322	$N = 322 = 2 \cdot 7 \cdot 23$ (4 isogeny classes)												322
A1	1	-1	0	-8	44	1	2	-	2, 3, 2	2, 3, 2	2, 3, 2	I_2, I_3, I_2	2 : 2
A2	1	-1	0	-238	1470	1	2	+	1, 6, 1	1, 6, 1	1, 6, 1	I_1, I_6, I_1	2 : 1
B1	1	1	0	35	381	0	2	-	14, 1, 2	14, 1, 2	2, 1, 2	I_{14}, I_1, I_2	2 : 2
B2	1	1	0	-605	5117	0	2	+	7, 2, 4	7, 2, 4	1, 2, 2	I_7, I_2, I_4	2 : 1
C1	1	1	1	-4	1	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
C2	1	1	1	-14	-23	0	2	+	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1
D1	1	0	0	-14	4	1	2	+	10, 1, 1	10, 1, 1	10, 1, 1	I_{10}, I_1, I_1	2 : 2
D2	1	0	0	-174	868	1	2	+	5, 2, 2	5, 2, 2	5, 2, 2	I_5, I_2, I_2	2 : 1
323	$N = 323 = 17 \cdot 19$ (1 isogeny class)												323
A1	0	0	1	-46	277	0	1	-	5, 1	5, 1	1, 1	I_5, I_1	
324	$N = 324 = 2^2 \cdot 3^4$ (4 isogeny classes)												324
A1	0	0	0	-21	37	0	3	+	4, 4	0, 0	3, 1	IV, II	3 : 2
A2	0	0	0	-81	-243	0	1	+	4, 12	0, 0	1, 1	IV, II^*	3 : 1
B1	0	0	0	9	-18	0	3	-	8, 6	0, 0	3, 3	IV^*, IV	3 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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324 $N = 324 = 2^2 \cdot 3^4$ (continued) 324

C1	0	0	0	-9	9	1	3	+	4, 6	0, 0	3, 3	IV, IV	3 : 2
C2	0	0	0	-189	-999	1	1	+	4, 10	0, 0	1, 1	IV, IV*	3 : 1
D1	0	0	0	-39	94	0	3	-	8, 4	0, 0	3, 1	IV*, II	3 : 2
D2	0	0	0	81	486	0	1	-	8, 12	0, 0	1, 1	IV*, II*	3 : 1

325 $N = 325 = 5^2 \cdot 13$ (5 isogeny classes) 325

A1	0	1	1	-83	244	1	3	+	8, 1	0, 1	3, 1	IV*, I ₁	3 : 2
A2	0	1	1	-1333	-19131	1	1	+	8, 3	0, 3	1, 3	IV*, I ₃	3 : 1
B1	0	-1	1	-3	3	1	1	+	2, 1	0, 1	1, 1	II, I ₁	3 : 2
B2	0	-1	1	-53	-132	1	1	+	2, 3	0, 3	1, 1	II, I ₃	3 : 1
C1	1	1	0	-25	0	0	2	+	7, 1	1, 1	4, 1	I ₁ *, I ₁	2 : 2
C2	1	1	0	100	125	0	2	-	8, 2	2, 2	4, 2	I ₂ *, I ₂	2 : 1
D1	0	1	1	-508	-4581	0	1	+	4, 1	0, 1	3, 1	IV, I ₁	5 : 2
D2	0	1	1	-2458	42369	0	1	+	8, 5	0, 5	3, 1	IV*, I ₅	5 : 1
E1	0	-1	1	-98	378	0	5	+	2, 5	0, 5	1, 5	II, I ₅	5 : 2
E2	0	-1	1	-12708	-547182	0	1	+	10, 1	0, 1	1, 1	II*, I ₁	5 : 1

326 $N = 326 = 2 \cdot 163$ (3 isogeny classes) 326

A1	1	-1	0	-80	-256	1	1	+	9, 1	9, 1	1, 1	I ₉ , I ₁	
B1	1	0	0	-6	4	1	1	+	5, 1	5, 1	5, 1	I ₅ , I ₁	
C1	1	0	1	-355	1182	0	3	+	9, 3	9, 3	1, 3	I ₉ , I ₃	3 : 2, 3
C2	1	0	1	-14210	-653100	0	1	+	27, 1	27, 1	1, 1	I ₂₇ , I ₁	3 : 1
C3	1	0	1	-300	1970	0	3	+	3, 1	3, 1	1, 1	I ₃ , I ₁	3 : 1

327 $N = 327 = 3 \cdot 109$ (1 isogeny class) 327

A1	1	0	0	4	-3	1	1	-	4, 1	4, 1	4, 1	I ₄ , I ₁	
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328 $N = 328 = 2^3 \cdot 41$ (2 isogeny classes) 328

A1	0	0	0	-11	-10	1	2	+	10, 1	0, 1	2, 1	III*, I ₁	2 : 2
A2	0	0	0	29	-66	1	2	-	11, 2	0, 2	1, 2	II*, I ₂	2 : 1
B1	0	-1	0	-12	20	0	2	+	8, 1	0, 1	2, 1	I ₁ *, I ₁	2 : 2
B2	0	-1	0	8	60	0	2	-	10, 2	0, 2	2, 2	III*, I ₂	2 : 1

329 $N = 329 = 7 \cdot 47$ (1 isogeny class) 329

A1	1	1	1	246	-1376	0	1	-	9, 1	9, 1	1, 1	I ₉ , I ₁	
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330 $N = 330 = 2 \cdot 3 \cdot 5 \cdot 11$ (5 isogeny classes) 330

A1	1	1	0	-1393	-20603	0	2	+	4, 5, 2, 1	4, 5, 2, 1	2, 1, 2, 1	I ₄ , I ₅ , I ₂ , I ₁	2 : 2
A2	1	1	0	-1413	-20007	0	4	+	2, 10, 4, 2	2, 10, 4, 2	2, 2, 2, 2	I ₂ , I ₁₀ , I ₄ , I ₂	2 : 1, 3, 4
A3	1	1	0	-4163	77343	0	2	+	1, 20, 2, 1	1, 20, 2, 1	1, 2, 2, 1	I ₁ , I ₂₀ , I ₂ , I ₁	2 : 2

TABLE 1: ELLIPTIC CURVES 330B–336A

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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330 $N = 330 = 2 \cdot 3 \cdot 5 \cdot 11$ (continued) **330**

B1	1	0	0	5	17	0	4	−	8, 2, 1, 1	8, 2, 1, 1	8, 2, 1, 1	I_8, I_2, I_1, I_1	2 : 2
B2	1	0	0	−75	225	0	8	+	4, 4, 2, 2	4, 4, 2, 2	4, 4, 2, 2	I_4, I_4, I_2, I_2	2 : 1, 3, 4
B3	1	0	0	−255	−1323	0	4	+	2, 2, 4, 4	2, 2, 4, 4	2, 2, 4, 2	I_2, I_2, I_4, I_4	2 : 2, 5, 6
B4	1	0	0	−1175	15405	0	4	+	2, 8, 1, 1	2, 8, 1, 1	2, 8, 1, 1	I_2, I_8, I_1, I_1	2 : 2
B5	1	0	0	−3885	−93525	0	2	+	1, 1, 8, 2	1, 1, 8, 2	1, 1, 8, 2	I_1, I_1, I_8, I_2	2 : 3
B6	1	0	0	495	−7473	0	2	−	1, 1, 2, 8	1, 1, 2, 8	1, 1, 2, 2	I_1, I_1, I_2, I_8	2 : 3
C1	1	1	1	255	255	0	4	−	16, 3, 1, 2	16, 3, 1, 2	16, 1, 1, 2	I_{16}, I_3, I_1, I_2	2 : 2
C2	1	1	1	−1025	767	0	8	+	8, 6, 2, 4	8, 6, 2, 4	8, 2, 2, 4	I_8, I_6, I_2, I_4	2 : 1, 3, 4
C3	1	1	1	−10705	−429025	0	4	+	4, 12, 4, 2	4, 12, 4, 2	4, 2, 4, 2	I_4, I_{12}, I_4, I_2	2 : 2, 5, 6
C4	1	1	1	−11825	488927	0	4	+	4, 3, 1, 8	4, 3, 1, 8	4, 1, 1, 8	I_4, I_3, I_1, I_8	2 : 2
C5	1	1	1	−171085	−27308713	0	2	+	2, 6, 8, 1	2, 6, 8, 1	2, 2, 8, 1	I_2, I_6, I_8, I_1	2 : 3
C6	1	1	1	−5205	−862425	0	2	−	2, 24, 2, 1	2, 24, 2, 1	2, 2, 2, 1	I_2, I_{24}, I_2, I_1	2 : 3
D1	1	1	1	−40266	2921559	0	4	+	28, 5, 4, 1	28, 5, 4, 1	28, 1, 2, 1	I_{28}, I_5, I_4, I_1	2 : 2
D2	1	1	1	−122186	−12872617	0	4	+	14, 10, 8, 2	14, 10, 8, 2	14, 2, 2, 2	I_{14}, I_{10}, I_8, I_2	2 : 1, 3, 4
D3	1	1	1	−1832906	−955821481	0	2	+	7, 5, 16, 1	7, 5, 16, 1	7, 1, 2, 1	I_7, I_5, I_{16}, I_1	2 : 2
D4	1	1	1	277814	−79112617	0	2	−	7, 20, 4, 4	7, 20, 4, 4	7, 2, 2, 2	I_7, I_{20}, I_4, I_4	2 : 2
E1	1	1	0	−22	−44	1	2	+	8, 1, 2, 1	8, 1, 2, 1	2, 1, 2, 1	I_8, I_1, I_2, I_1	2 : 2
E2	1	1	0	−102	324	1	4	+	4, 2, 4, 2	4, 2, 4, 2	2, 2, 4, 2	I_4, I_2, I_4, I_2	2 : 1, 3, 4
E3	1	1	0	−1602	24024	1	4	+	2, 1, 2, 4	2, 1, 2, 4	2, 1, 2, 4	I_2, I_1, I_2, I_4	2 : 2
E4	1	1	0	118	1776	1	2	−	2, 4, 8, 1	2, 4, 8, 1	2, 2, 8, 1	I_2, I_4, I_8, I_1	2 : 2

331 $N = 331 = 331$ (1 isogeny class) **331**

A1	1	0	0	−5	4	1	1	−	1	1	1	I_1	
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333 $N = 333 = 3^2 \cdot 37$ (4 isogeny classes) **333**

A1	0	0	1	−30	−63	1	1	+	6, 1	0, 1	1, 1	I_0^*, I_1	3 : 2
A2	0	0	1	−210	1134	1	3	+	6, 3	0, 3	1, 3	I_0^*, I_3	3 : 1, 3
A3	0	0	1	−16860	842625	1	3	+	6, 1	0, 1	1, 1	I_0^*, I_1	3 : 2
B1	1	−1	0	12	35	1	2	−	9, 1	0, 1	2, 1	III^*, I_1	2 : 2
B2	1	−1	0	−123	494	1	2	+	9, 2	0, 2	2, 2	III^*, I_2	2 : 1
C1	1	−1	1	1	−2	1	2	−	3, 1	0, 1	2, 1	III, I_1	2 : 2
C2	1	−1	1	−14	−14	1	2	+	3, 2	0, 2	2, 2	III, I_2	2 : 1
D1	0	0	1	−9	−7	0	1	+	6, 1	0, 1	1, 1	I_0^*, I_1	

334 $N = 334 = 2 \cdot 167$ (1 isogeny class) **334**

A1	1	−1	1	−1	−1	0	1	−	1, 1	1, 1	1, 1	I_1, I_1	
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335 $N = 335 = 5 \cdot 67$ (1 isogeny class) **335**

A1	0	0	1	−2	2	1	1	−	2, 1	2, 1	2, 1	I_2, I_1	
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336 $N = 336 = 2^4 \cdot 3 \cdot 7$ (6 isogeny classes) **336**

A1	0	−1	0	7	0	0	2	−	4, 3, 2	0, 3, 2	1, 1, 2	II, I_3, I_2	2 : 2; 3 : 3
A2	0	−1	0	−28	28	0	2	+	8, 6, 1	0, 6, 1	1, 2, 1	I_0^*, I_6, I_1	2 : 1; 3 : 4
A3	0	−1	0	−113	516	0	2	−	4, 1, 6	0, 1, 6	1, 1, 2	II, I_1, I_6	2 : 4; 3 : 1

TABLE 1: ELLIPTIC CURVES 336B–340A

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
336	$N = 336 = 2^4 \cdot 3 \cdot 7$ (continued)												336
B1	0	-1	0	-7	10	0	2	+	4, 1, 1	0, 1, 1	1, 1, 1	II, I ₁ , I ₁	2 : 2
B2	0	-1	0	-12	0	0	4	+	8, 2, 2	0, 2, 2	2, 2, 2	I ₀ [*] , I ₂ , I ₂	2 : 1, 3, 4
B3	0	-1	0	-152	-672	0	2	+	10, 4, 1	0, 4, 1	2, 2, 1	I ₂ [*] , I ₄ , I ₁	2 : 2
B4	0	-1	0	48	-48	0	4	-	10, 1, 4	0, 1, 4	4, 1, 4	I ₂ [*] , I ₁ , I ₄	2 : 2
C1	0	1	0	-7	-52	0	2	-	4, 3, 4	0, 3, 4	1, 3, 2	II, I ₃ , I ₄	2 : 2
C2	0	1	0	-252	-1620	0	4	+	8, 6, 2	0, 6, 2	2, 6, 2	I ₀ [*] , I ₆ , I ₂	2 : 1, 3, 4
C3	0	1	0	-4032	-99900	0	2	+	10, 3, 1	0, 3, 1	4, 3, 1	I ₂ [*] , I ₃ , I ₁	2 : 2
C4	0	1	0	-392	228	0	4	+	10, 12, 1	0, 12, 1	2, 12, 1	I ₂ [*] , I ₁₂ , I ₁	2 : 2
D1	0	1	0	-64	-460	0	2	-	20, 2, 1	8, 2, 1	4, 2, 1	I ₁₂ [*] , I ₂ , I ₁	2 : 2
D2	0	1	0	-1344	-19404	0	4	+	16, 4, 2	4, 4, 2	4, 4, 2	I ₈ [*] , I ₄ , I ₂	2 : 1, 3, 4
D3	0	1	0	-21504	-1220940	0	2	+	14, 2, 1	2, 2, 1	2, 2, 1	I ₆ [*] , I ₂ , I ₁	2 : 2
D4	0	1	0	-1664	-9804	0	8	+	14, 8, 4	2, 8, 4	4, 8, 4	I ₆ [*] , I ₈ , I ₄	2 : 2, 5, 6
D5	0	1	0	-14624	669300	0	8	+	13, 4, 8	1, 4, 8	4, 4, 8	I ₅ [*] , I ₄ , I ₈	2 : 4
D6	0	1	0	6176	-69388	0	4	-	13, 16, 2	1, 16, 2	2, 16, 2	I ₅ [*] , I ₁₆ , I ₂	2 : 4
E1	0	-1	0	16	0	1	2	-	12, 2, 1	0, 2, 1	4, 2, 1	I ₄ [*] , I ₂ , I ₁	2 : 2
E2	0	-1	0	-64	64	1	4	+	12, 4, 2	0, 4, 2	4, 2, 2	I ₄ [*] , I ₄ , I ₂	2 : 1, 3, 4
E3	0	-1	0	-624	-5760	1	2	+	12, 8, 1	0, 8, 1	2, 2, 1	I ₄ [*] , I ₈ , I ₁	2 : 2
E4	0	-1	0	-784	8704	1	8	+	12, 2, 4	0, 2, 4	4, 2, 4	I ₄ [*] , I ₂ , I ₄	2 : 2, 5, 6
E5	0	-1	0	-12544	544960	1	4	+	12, 1, 2	0, 1, 2	2, 1, 2	I ₄ [*] , I ₁ , I ₂	2 : 4
E6	0	-1	0	-544	13888	1	4	-	12, 1, 8	0, 1, 8	4, 1, 8	I ₄ [*] , I ₁ , I ₈	2 : 4
F1	0	1	0	-1	2	0	2	-	4, 1, 2	0, 1, 2	1, 1, 2	II, I ₁ , I ₂	2 : 2
F2	0	1	0	-36	72	0	2	+	8, 2, 1	0, 2, 1	1, 2, 1	I ₀ [*] , I ₂ , I ₁	2 : 1
338	$N = 338 = 2 \cdot 13^2$ (6 isogeny classes)												338
A1	1	-1	0	1	1	1	1	-	2, 2	2, 0	2, 1	I ₂ , II	7 : 2
A2	1	-1	0	-389	-2859	1	1	-	14, 2	14, 0	2, 1	I ₁₄ , II	7 : 1
B1	1	-1	1	137	2643	0	1	-	2, 8	2, 0	2, 1	I ₂ , IV [*]	7 : 2
B2	1	-1	1	-65773	-6478507	0	1	-	14, 8	14, 0	14, 1	I ₁₄ , IV [*]	7 : 1
C1	1	0	0	81	467	0	1	-	1, 7	1, 1	1, 2	I ₁ , I ₁ [*]	3 : 2
C2	1	0	0	-764	-16264	0	1	-	3, 9	3, 3	3, 2	I ₃ , I ₃ [*]	3 : 1, 3
C3	1	0	0	-77659	-8336303	0	1	-	9, 7	9, 1	9, 2	I ₉ , I ₁ [*]	3 : 2
D1	1	1	0	504	-13112	0	1	-	3, 9	3, 0	1, 2	I ₃ , III [*]	5 : 2
D2	1	1	0	-54421	4945517	0	1	-	15, 9	15, 0	1, 2	I ₁₅ , III [*]	5 : 1
E1	1	1	1	3	-5	1	1	-	3, 3	3, 0	3, 2	I ₃ , III	5 : 2
E2	1	1	1	-322	2127	1	1	-	15, 3	15, 0	15, 2	I ₁₅ , III	5 : 1
F1	1	-1	0	-454	5812	1	1	-	7, 7	7, 1	1, 4	I ₇ , I ₁ [*]	7 : 2
F2	1	-1	0	-35944	-2868878	1	1	-	1, 13	1, 7	1, 4	I ₁ , I ₇ [*]	7 : 1
339	$N = 339 = 3 \cdot 113$ (3 isogeny classes)												339
A1	0	1	1	-441	3422	1	1	-	9, 1	9, 1	9, 1	I ₉ , I ₁	
B1	0	-1	1	-112	501	0	1	-	9, 1	9, 1	1, 1	I ₉ , I ₁	
C1	0	1	1	-2	2	1	1	-	3, 1	3, 1	3, 1	I ₃ , I ₁	
340	$N = 340 = 2^2 \cdot 5 \cdot 17$ (1 isogeny class)												340
A1	0	0	0	-28	57	1	2	+	4, 1, 1	0, 1, 1	3, 1, 1	IV, I ₁ , I ₁	2 : 2

TABLE 1: ELLIPTIC CURVES 342A–347A

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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342 $N = 342 = 2 \cdot 3^2 \cdot 19$ (7 isogeny classes) 342

A1	1	-1	1	-140	-601	0	1	-	3, 6, 1	3, 0, 1	3, 1, 1	I_3, I_0^*, I_1	3 : 2
A2	1	-1	1	85	-2437	0	3	-	9, 6, 3	9, 0, 3	9, 1, 3	I_9, I_0^*, I_3	3 : 1, 3
A3	1	-1	1	-770	66305	0	3	-	27, 6, 1	27, 0, 1	27, 1, 1	I_{27}, I_0^*, I_1	3 : 2
B1	1	-1	1	-860	9915	0	2	+	2, 11, 1	2, 5, 1	2, 2, 1	I_2, I_5^*, I_1	2 : 2
B2	1	-1	1	-770	12003	0	2	-	1, 16, 2	1, 10, 2	1, 4, 2	I_1, I_{10}^*, I_2	2 : 1
C1	1	-1	0	-72	0	1	2	+	6, 9, 1	6, 3, 1	2, 4, 1	I_6, I_3^*, I_1	2 : 2; 3 : 3
C2	1	-1	0	288	-216	1	2	-	3, 12, 2	3, 6, 2	1, 4, 2	I_3, I_6^*, I_2	2 : 1; 3 : 4
C3	1	-1	0	-3852	92988	1	6	+	2, 7, 3	2, 1, 3	2, 4, 3	I_2, I_1^*, I_3	2 : 4; 3 : 1
C4	1	-1	0	-3762	97470	1	6	-	1, 8, 6	1, 2, 6	1, 4, 6	I_1, I_2^*, I_6	2 : 3; 3 : 2
D1	1	-1	1	-29	1	0	2	+	2, 9, 1	2, 0, 1	2, 2, 1	I_2, III^*, I_1	2 : 2
D2	1	-1	1	-299	2053	0	2	+	1, 9, 2	1, 0, 2	1, 2, 2	I_1, III^*, I_2	2 : 1
E1	1	-1	0	-3	1	1	2	+	2, 3, 1	2, 0, 1	2, 2, 1	I_2, III, I_1	2 : 2
E2	1	-1	0	-33	-65	1	2	+	1, 3, 2	1, 0, 2	1, 2, 2	I_1, III, I_2	2 : 1
F1	1	-1	0	-3168	62464	0	2	+	20, 9, 1	20, 3, 1	2, 2, 1	I_{20}, I_3^*, I_1	2 : 2
F2	1	-1	0	-49248	4218880	0	4	+	10, 12, 2	10, 6, 2	2, 4, 2	I_{10}, I_6^*, I_2	2 : 1, 3, 4
F3	1	-1	0	-787968	269419360	0	2	+	5, 9, 1	5, 3, 1	1, 4, 1	I_5, I_3^*, I_1	2 : 2
F4	1	-1	0	-47808	4476064	0	2	-	5, 18, 4	5, 12, 4	1, 4, 2	I_5, I_{12}^*, I_4	2 : 2
G1	1	-1	0	0	-32	0	1	-	5, 6, 1	5, 0, 1	1, 1, 1	I_5, I_0^*, I_1	5 : 2
G2	1	-1	0	-630	6898	0	1	-	1, 6, 5	1, 0, 5	1, 1, 1	I_1, I_0^*, I_5	5 : 1

344 $N = 344 = 2^3 \cdot 43$ (1 isogeny class) 344

A1	0	0	0	4	4	1	1	-	8, 1	0, 1	2, 1	I_1^*, I_1	
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345 $N = 345 = 3 \cdot 5 \cdot 23$ (6 isogeny classes) 345

A1	0	-1	1	-731	-7369	0	1	-	2, 5, 1	2, 5, 1	2, 1, 1	I_2, I_5, I_1	
B1	0	1	1	-1	1	1	1	-	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	
C1	1	0	1	456	2401	0	2	-	5, 3, 4	5, 3, 4	5, 1, 2	I_5, I_3, I_4	2 : 2
C2	1	0	1	-2189	20387	0	4	+	10, 6, 2	10, 6, 2	10, 2, 2	I_{10}, I_6, I_2	2 : 1, 3, 4
C3	1	0	1	-16564	-807613	0	2	+	20, 3, 1	20, 3, 1	20, 1, 1	I_{20}, I_3, I_1	2 : 2
C4	1	0	1	-30134	2010071	0	2	+	5, 12, 1	5, 12, 1	5, 2, 1	I_5, I_{12}, I_1	2 : 2
D1	1	0	0	9	0	0	4	-	4, 2, 1	4, 2, 1	4, 2, 1	I_4, I_2, I_1	2 : 2
D2	1	0	0	-36	-9	0	4	+	2, 4, 2	2, 4, 2	2, 2, 2	I_2, I_4, I_2	2 : 1, 3, 4
D3	1	0	0	-411	-3234	0	2	+	1, 2, 4	1, 2, 4	1, 2, 2	I_1, I_2, I_4	2 : 2
D4	1	0	0	-381	2820	0	2	+	1, 8, 1	1, 8, 1	1, 2, 1	I_1, I_8, I_1	2 : 2
E1	0	-1	1	30	-97	0	1	-	4, 1, 3	4, 1, 3	2, 1, 1	I_4, I_1, I_3	
F1	0	1	1	-100	406	1	1	-	8, 3, 1	8, 3, 1	8, 3, 1	I_8, I_3, I_1	

346 $N = 346 = 2 \cdot 173$ (2 isogeny classes) 346

A1	1	0	0	-16	-26	0	1	+	1, 1	1, 1	1, 1	I_1, I_1	
B1	1	1	1	-7	-3	1	1	+	7, 1	7, 1	7, 1	I_7, I_1	

347 $N = 347 = 347$ (1 isogeny class) 347

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
348	$N = 348 = 2^2 \cdot 3 \cdot 29$ (4 isogeny classes)												
A1	0	-1	0	2	1	1	1	-	4, 1, 1	0, 1, 1	3, 1, 1	IV, I ₁ , I ₁	
B1	0	1	0	-2	-3	0	1	-	4, 1, 1	0, 1, 1	1, 1, 1	IV, I ₁ , I ₁	
C1	0	-1	0	-94	3973	0	1	-	4, 15, 1	0, 15, 1	1, 1, 1	IV, I ₁₅ , I ₁	
D1	0	1	0	-50	129	1	1	-	4, 7, 1	0, 7, 1	3, 7, 1	IV, I ₇ , I ₁	
350	$N = 350 = 2 \cdot 5^2 \cdot 7$ (6 isogeny classes)												
A1	1	-1	0	58	-284	0	2	-	4, 8, 1	4, 2, 1	2, 2, 1	I ₄ , I ₂ [*] , I ₁	2 : 2
A2	1	-1	0	-442	-2784	0	4	+	2, 10, 2	2, 4, 2	2, 4, 2	I ₂ , I ₄ [*] , I ₂	2 : 1, 3, 4
A3	1	-1	0	-6692	-209034	0	2	+	1, 8, 4	1, 2, 4	1, 2, 4	I ₁ , I ₂ [*] , I ₄	2 : 2
A4	1	-1	0	-2192	37466	0	2	+	1, 14, 1	1, 8, 1	1, 4, 1	I ₁ , I ₈ [*] , I ₁	2 : 2
B1	1	0	0	112	392	0	3	-	3, 8, 2	3, 0, 2	3, 3, 2	I ₃ , IV [*] , I ₂	3 : 2
B2	1	0	0	-1138	-20858	0	1	-	1, 8, 6	1, 0, 6	1, 1, 6	I ₁ , IV [*] , I ₆	3 : 1
C1	1	1	0	5	5	1	1	-	3, 2, 2	3, 0, 2	1, 1, 2	I ₃ , II, I ₂	3 : 2
C2	1	1	0	-45	-185	1	1	-	1, 2, 6	1, 0, 6	1, 1, 2	I ₁ , II, I ₆	3 : 1
D1	1	1	1	-13	31	0	2	-	2, 6, 1	2, 0, 1	2, 2, 1	I ₂ , I ₀ [*] , I ₁	2 : 2; 3 : 3
D2	1	1	1	-263	1531	0	2	+	1, 6, 2	1, 0, 2	1, 2, 2	I ₁ , I ₀ [*] , I ₂	2 : 1; 3 : 4
D3	1	1	1	112	-719	0	2	-	6, 6, 3	6, 0, 3	6, 2, 1	I ₆ , I ₀ [*] , I ₃	2 : 4; 3 : 1, 5
D4	1	1	1	-888	-8719	0	2	+	3, 6, 6	3, 0, 6	3, 2, 2	I ₃ , I ₀ [*] , I ₆	2 : 3; 3 : 2, 6
D5	1	1	1	-4263	-109219	0	2	-	18, 6, 1	18, 0, 1	18, 2, 1	I ₁₈ , I ₀ [*] , I ₁	2 : 6; 3 : 3
D6	1	1	1	-68263	-6893219	0	2	+	9, 6, 2	9, 0, 2	9, 2, 2	I ₉ , I ₀ [*] , I ₂	2 : 5; 3 : 4
E1	1	-1	0	-4492	126416	0	1	-	11, 10, 2	11, 0, 2	1, 1, 2	I ₁₁ , II [*] , I ₂	
F1	1	-1	1	-180	1047	1	1	-	11, 4, 2	11, 0, 2	11, 3, 2	I ₁₁ , IV, I ₂	
352	$N = 352 = 2^5 \cdot 11$ (6 isogeny classes)												
A1	0	1	0	-45	-133	0	1	-	12, 1	0, 1	2, 1	III [*] , I ₁	
B1	0	1	0	3	11	1	1	-	12, 1	0, 1	2, 1	III [*] , I ₁	
C1	0	-1	0	-45	133	1	1	-	12, 1	0, 1	2, 1	III [*] , I ₁	
D1	0	-1	0	3	-11	1	1	-	12, 1	0, 1	2, 1	III [*] , I ₁	
E1	0	0	0	8	-112	0	1	-	12, 3	0, 3	2, 1	III [*] , I ₃	
F1	0	0	0	8	112	1	1	-	12, 3	0, 3	2, 3	III [*] , I ₃	
353	$N = 353 = 353$ (1 isogeny class)												
A1	1	1	1	-2	16	0	2	-	2	2	2	I ₂	2 : 2
A2	1	1	1	-7	4	0	2	+	1	1	1	I ₁	2 : 1
354	$N = 354 = 2 \cdot 3 \cdot 59$ (6 isogeny classes)												
A1	1	1	1	-3	-3	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I ₂ , I ₁ , I ₁	2 : 2
A2	1	1	1	7	-7	0	2	-	1, 2, 2	1, 2, 2	1, 2, 2	I ₁ , I ₂ , I ₂	2 : 1
B1	1	0	1	9	-8	0	3	-	1, 6, 1	1, 6, 1	1, 6, 1	I ₁ , I ₆ , I ₁	3 : 2
B2	1	0	1	-216	-1250	0	1	-	3, 2, 3	3, 2, 3	1, 2, 1	I ₃ , I ₂ , I ₃	3 : 1
C1	1	1	0	-715	7069	1	1	-	5, 6, 1	5, 6, 1	1, 2, 1	I ₅ , I ₆ , I ₁	
D1	1	1	0	-34	-92	0	2	+	4, 3, 1	4, 3, 1	2, 1, 1	I ₄ , I ₃ , I ₁	2 : 2
D2	1	1	0	-54	0	0	4	+	2, 6, 2	2, 6, 2	2, 2, 2	I ₂ , I ₆ , I ₂	2 : 1, 3, 4
D3	1	1	0	-644	6018	0	2	+	1, 12, 1	1, 12, 1	1, 2, 1	I ₁ , I ₁₂ , I ₁	2 : 2

TABLE 1: ELLIPTIC CURVES 354E–360E

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
354	$N = 354 = 2 \cdot 3 \cdot 59$ (continued)												354
E1	1	1	1	-23511	-1393299	0	2	+	22, 9, 1	22, 9, 1	22, 1, 1	I_{22}, I_9, I_1	2 : 2
E2	1	1	1	-13271	-2601619	0	2	-	11, 18, 2	11, 18, 2	11, 2, 2	I_{11}, I_{18}, I_2	2 : 1
F1	1	1	1	-5	11	1	1	-	7, 2, 1	7, 2, 1	7, 2, 1	I_7, I_2, I_1	
355	$N = 355 = 5 \cdot 71$ (1 isogeny class)												355
A1	0	1	1	5	-1	0	3	-	3, 1	3, 1	3, 1	I_3, I_1	3 : 2
A2	0	1	1	-95	-396	0	1	-	1, 3	1, 3	1, 1	I_1, I_3	3 : 1
356	$N = 356 = 2^2 \cdot 89$ (1 isogeny class)												356
A1	0	-1	0	4	-8	1	1	-	8, 1	0, 1	3, 1	IV^*, I_1	
357	$N = 357 = 3 \cdot 7 \cdot 17$ (4 isogeny classes)												357
A1	0	-1	1	3565	72914	0	1	-	17, 4, 1	17, 4, 1	1, 2, 1	I_{17}, I_4, I_1	
B1	0	-1	1	-5	-16	1	1	-	1, 4, 1	1, 4, 1	1, 4, 1	I_1, I_4, I_1	
C1	0	1	1	20	-17	0	1	-	1, 2, 3	1, 2, 3	1, 2, 1	I_1, I_2, I_3	
D1	0	1	1	-42	110	1	1	-	7, 2, 1	7, 2, 1	7, 2, 1	I_7, I_2, I_1	
358	$N = 358 = 2 \cdot 179$ (2 isogeny classes)												358
A1	1	1	0	55	197	0	1	-	17, 1	17, 1	1, 1	I_{17}, I_1	
B1	1	0	0	-18	28	0	3	-	3, 1	3, 1	3, 1	I_3, I_1	3 : 2
B2	1	0	0	32	150	0	1	-	1, 3	1, 3	1, 1	I_1, I_3	3 : 1
359	$N = 359 = 359$ (2 isogeny classes)												359
A1	1	0	1	-23	39	1	1	+	1	1	1	I_1	
B1	1	-1	1	-7	8	1	1	+	1	1	1	I_1	
360	$N = 360 = 2^3 \cdot 3^2 \cdot 5$ (5 isogeny classes)												360
A1	0	0	0	-138	-623	0	2	+	4, 8, 1	0, 2, 1	2, 2, 1	III, I_2^*, I_1	2 : 2
A2	0	0	0	-183	-182	0	4	+	8, 10, 2	0, 4, 2	2, 4, 2	I_1^*, I_4^*, I_2	2 : 1, 3, 4
A3	0	0	0	-1803	29302	0	4	+	10, 8, 4	0, 2, 4	2, 4, 2	III^*, I_2^*, I_4	2 : 2, 5, 6
A4	0	0	0	717	-1442	0	2	-	10, 14, 1	0, 8, 1	2, 4, 1	III^*, I_8^*, I_1	2 : 2
A5	0	0	0	-28803	1881502	0	2	+	11, 7, 2	0, 1, 2	1, 2, 2	II^*, I_1^*, I_2	2 : 3
A6	0	0	0	-723	64078	0	2	-	11, 7, 8	0, 1, 8	1, 4, 2	II^*, I_1^*, I_8	2 : 3
B1	0	0	0	-3	-18	0	2	-	10, 3, 1	0, 0, 1	2, 2, 1	III^*, III, I_1	2 : 2
B2	0	0	0	-123	-522	0	2	+	11, 3, 2	0, 0, 2	1, 2, 2	II^*, III, I_2	2 : 1
C1	0	0	0	-27	486	0	2	-	10, 9, 1	0, 0, 1	2, 2, 1	III^*, III^*, I_1	2 : 2
C2	0	0	0	-1107	14094	0	2	+	11, 9, 2	0, 0, 2	1, 2, 2	II^*, III^*, I_2	2 : 1
D1	0	0	0	33	34	0	4	-	8, 7, 1	0, 1, 1	4, 4, 1	I_1^*, I_1^*, I_1	2 : 2
D2	0	0	0	-147	286	0	4	+	10, 8, 2	0, 2, 2	2, 4, 2	III^*, I_2^*, I_2	2 : 1, 3, 4
D3	0	0	0	-1227	-16346	0	2	+	11, 7, 4	0, 1, 4	1, 2, 4	II^*, I_1^*, I_4	2 : 2
D4	0	0	0	-1947	33046	0	2	+	11, 10, 1	0, 4, 1	1, 4, 1	II^*, I_4^*, I_1	2 : 2
E1	0	0	0	-18	-27	1	2	+	4, 6, 1	0, 0, 1	2, 2, 1	III, I_0^*, I_1	2 : 2
E2	0	0	0	-63	162	1	4	+	8, 6, 2	0, 0, 2	4, 4, 2	I_1^*, I_0^*, I_2	2 : 1, 3, 4
E3	0	0	0	-963	11502	1	2	+	10, 6, 1	0, 0, 1	2, 2, 1	III^*, I_1^*, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 361A–368E

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
361	$N = 361 = 19^2$ (2 isogeny classes) 361												
A1	0	0	1	-38	90	1	1	-	3	0	2	III	19 : 2
A2	0	0	1	-13718	-619025	1	1	-	9	0	2	III*	19 : 1
B1	0	-1	1	241	-17	0	1	-	7	1	2	I ₁ *	3 : 2
B2	0	-1	1	-3369	81208	0	1	-	9	3	2	I ₃ *	3 : 1, 3
B3	0	-1	1	-277729	56427893	0	1	-	7	1	2	I ₁ *	3 : 2
362	$N = 362 = 2 \cdot 181$ (2 isogeny classes) 362												
A1	1	1	0	-4	2	1	1	-	1, 1	1, 1	1, 1	I ₁ , I ₁	
B1	1	1	1	6	7	1	1	-	7, 1	7, 1	7, 1	I ₇ , I ₁	
363	$N = 363 = 3 \cdot 11^2$ (3 isogeny classes) 363												
A1	1	1	1	-789	8130	0	4	+	3, 7	3, 1	1, 4	I ₃ , I ₁ *	2 : 2
A2	1	1	1	-1394	-6874	0	4	+	6, 8	6, 2	2, 4	I ₆ , I ₂ *	2 : 1, 3, 4
A3	1	1	1	-17729	-915100	0	2	+	3, 10	3, 4	1, 4	I ₃ , I ₄ *	2 : 2
A4	1	1	1	5261	-46804	0	2	-	12, 7	12, 1	2, 2	I ₁₂ , I ₁ *	2 : 2
B1	0	-1	1	4	-1	0	1	-	3, 2	3, 0	1, 1	I ₃ , II	
C1	0	-1	1	444	-826	0	1	-	3, 8	3, 0	1, 1	I ₃ , IV*	
364	$N = 364 = 2^2 \cdot 7 \cdot 13$ (2 isogeny classes) 364												
A1	0	0	0	-584	5444	1	1	-	8, 5, 1	0, 5, 1	3, 5, 1	IV*, I ₅ , I ₁	
B1	0	1	0	-5	7	1	1	-	8, 1, 1	0, 1, 1	3, 1, 1	IV*, I ₁ , I ₁	
366	$N = 366 = 2 \cdot 3 \cdot 61$ (7 isogeny classes) 366												
A1	1	0	0	-205	-1147	0	1	-	2, 2, 1	2, 2, 1	2, 2, 1	I ₂ , I ₂ , I ₁	
B1	1	0	0	-5	33	0	5	-	5, 5, 1	5, 5, 1	5, 5, 1	I ₅ , I ₅ , I ₁	5 : 2
B2	1	0	0	-515	-5697	0	1	-	1, 1, 5	1, 1, 5	1, 1, 5	I ₁ , I ₁ , I ₅	5 : 1
C1	1	0	1	-913	-10780	0	1	-	19, 3, 1	19, 3, 1	1, 3, 1	I ₁₉ , I ₃ , I ₁	
D1	1	1	1	-7096	-233095	0	1	-	7, 13, 1	7, 13, 1	7, 1, 1	I ₇ , I ₁₃ , I ₁	
E1	1	1	0	-1	-11	0	2	-	8, 1, 1	8, 1, 1	2, 1, 1	I ₈ , I ₁ , I ₁	2 : 2
E2	1	1	0	-81	-315	0	4	+	4, 2, 2	4, 2, 2	2, 2, 2	I ₄ , I ₂ , I ₂	2 : 1, 3, 4
E3	1	1	0	-1301	-18615	0	2	+	2, 4, 1	2, 4, 1	2, 2, 1	I ₂ , I ₄ , I ₁	2 : 2
E4	1	1	0	-141	129	0	4	+	2, 1, 4	2, 1, 4	2, 1, 4	I ₂ , I ₁ , I ₄	2 : 2
F1	1	0	1	-5	20	1	3	-	2, 6, 1	2, 6, 1	2, 6, 1	I ₂ , I ₆ , I ₁	3 : 2
F2	1	0	1	40	-538	1	1	-	6, 2, 3	6, 2, 3	2, 2, 3	I ₆ , I ₂ , I ₃	3 : 1
G1	1	1	1	-32	65	1	1	-	10, 2, 1	10, 2, 1	10, 2, 1	I ₁₀ , I ₂ , I ₁	
368	$N = 368 = 2^4 \cdot 23$ (7 isogeny classes) 368												
A1	0	0	0	5	-6	1	2	-	10, 1	0, 1	4, 1	I ₂ , I ₁	2 : 2
A2	0	0	0	-35	-62	1	2	+	11, 2	0, 2	4, 2	I ₃ , I ₂	2 : 1
B1	0	0	0	-163	930	0	2	-	22, 1	10, 1	4, 1	I ₁₄ , I ₁	2 : 2
B2	0	0	0	-2723	54690	0	2	+	17, 2	5, 2	2, 2	I ₉ , I ₂	2 : 1
C1	0	1	0	-4	-5	0	1	-	4, 1	0, 1	1, 1	II, I ₁	
D1	0	1	0	0	-1	1	1	-	4, 1	0, 1	1, 1	II, I ₁	
E1	0	-1	0	2	-1	1	1	-	4, 1	0, 1	1, 1	II, I ₁	3 : 2

TABLE 1: ELLIPTIC CURVES 368F–377A

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
368	$N = 368 = 2^4 \cdot 23$ (continued)												368
F1	0	0	0	-1	-1	0	1	-	4, 1	0, 1	1, 1	II, I ₁	
G1	0	0	0	-55	157	1	1	-	4, 1	0, 1	1, 1	II, I ₁	
369	$N = 369 = 3^2 \cdot 41$ (2 isogeny classes)												369
A1	0	0	1	6	13	1	1	-	7, 1	1, 1	2, 1	I ₁ [*] , I ₁	
B1	0	0	1	-93	-369	0	1	-	11, 1	5, 1	4, 1	I ₅ [*] , I ₁	5 : 2
B2	0	0	1	177	24201	0	1	-	7, 5	1, 5	4, 1	I ₁ [*] , I ₅	5 : 1
370	$N = 370 = 2 \cdot 5 \cdot 37$ (4 isogeny classes)												370
A1	1	-1	0	-5	5	1	2	+	4, 1, 1	4, 1, 1	2, 1, 1	I ₄ , I ₁ , I ₁	2 : 2
A2	1	-1	0	-25	-39	1	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I ₂ , I ₂ , I ₂	2 : 1, 3, 4
A3	1	-1	0	-395	-2925	1	2	+	1, 4, 1	1, 4, 1	1, 2, 1	I ₁ , I ₄ , I ₁	2 : 2
A4	1	-1	0	25	-209	1	2	-	1, 1, 4	1, 1, 4	1, 1, 2	I ₁ , I ₁ , I ₄	2 : 2
B1	1	1	0	13	-19	0	1	-	11, 1, 1	11, 1, 1	1, 1, 1	I ₁₁ , I ₁ , I ₁	
C1	1	0	1	-19	342	0	3	-	3, 3, 3	3, 3, 3	1, 1, 3	I ₃ , I ₃ , I ₃	3 : 2, 3
C2	1	0	1	166	-9204	0	1	-	9, 9, 1	9, 9, 1	1, 1, 1	I ₉ , I ₉ , I ₁	3 : 1
C3	1	0	1	-54	146	0	3	-	1, 1, 1	1, 1, 1	1, 1, 1	I ₁ , I ₁ , I ₁	3 : 1
D1	1	0	0	-75	-143	0	6	+	12, 3, 1	12, 3, 1	12, 3, 1	I ₁₂ , I ₃ , I ₁	2 : 2; 3 : 3
D2	1	0	0	245	-975	0	6	-	6, 6, 2	6, 6, 2	6, 6, 2	I ₆ , I ₆ , I ₂	2 : 1; 3 : 4
D3	1	0	0	-5275	-147903	0	2	+	4, 1, 3	4, 1, 3	4, 1, 3	I ₄ , I ₁ , I ₃	2 : 4; 3 : 1
D4	1	0	0	-5255	-149075	0	2	-	2, 2, 6	2, 2, 6	2, 2, 6	I ₂ , I ₂ , I ₆	2 : 3; 3 : 2
371	$N = 371 = 7 \cdot 53$ (2 isogeny classes)												371
A1	1	1	0	-35	-98	1	1	-	4, 1	4, 1	2, 1	I ₄ , I ₁	
B1	0	0	1	-31	-67	0	1	-	3, 1	3, 1	3, 1	I ₃ , I ₁	
372	$N = 372 = 2^2 \cdot 3 \cdot 31$ (4 isogeny classes)												372
A1	0	-1	0	-6	9	1	1	-	4, 2, 1	0, 2, 1	3, 2, 1	IV, I ₂ , I ₁	
B1	0	1	0	-9	12	0	2	-	4, 1, 2	0, 1, 2	1, 1, 2	IV, I ₁ , I ₂	2 : 2
B2	0	1	0	-164	756	0	2	+	8, 2, 1	0, 2, 1	1, 2, 1	IV [*] , I ₂ , I ₁	2 : 1
C1	0	1	0	-3054	-69327	0	3	-	4, 18, 1	0, 18, 1	3, 18, 1	IV, I ₁₈ , I ₁	3 : 2
C2	0	1	0	-250914	-48460347	0	1	-	4, 6, 3	0, 6, 3	1, 6, 3	IV, I ₆ , I ₃	3 : 1
D1	0	1	0	-2	9	1	1	-	4, 4, 1	0, 4, 1	3, 4, 1	IV, I ₄ , I ₁	
373	$N = 373 = 373$ (1 isogeny class)												373
A1	0	1	1	-2	-2	1	1	+	1	1	1	I ₁	
374	$N = 374 = 2 \cdot 11 \cdot 17$ (1 isogeny class)												374
A1	1	-1	0	-32	0	1	2	+	10, 2, 1	10, 2, 1	2, 2, 1	I ₁₀ , I ₂ , I ₁	2 : 2
A2	1	-1	0	128	-96	1	2	-	5, 4, 2	5, 4, 2	1, 2, 2	I ₅ , I ₄ , I ₂	2 : 1
377	$N = 377 = 13 \cdot 29$ (1 isogeny class)												377
A1	1	-1	0	-8	11	1	2	+	1, 1	1, 1	1, 1	I ₁ , I ₁	2 : 2
A2	1	-1	0	-13	0	1	4	+	2, 2	2, 2	2, 2	I ₂ , I ₂	2 : 1, 3, 4
A3	1	-1	0	-158	-725	1	2	+	4, 1	4, 1	4, 1	I ₄ , I ₁	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
378	$N = 378 = 2 \cdot 3^3 \cdot 7$ (8 isogeny classes)												378
A1	1	-1	1	10	5	0	3	-	9, 3, 1	9, 0, 1	9, 1, 1	I_9, II, I_1	3 : 2
A2	1	-1	1	-110	-539	0	3	-	3, 9, 3	3, 0, 3	3, 3, 3	I_3, IV^*, I_3	3 : 1, 3
A3	1	-1	1	-9560	-357371	0	1	-	1, 11, 1	1, 0, 1	1, 1, 1	I_1, II^*, I_1	3 : 2
B1	1	-1	0	-12	24	0	3	-	3, 3, 3	3, 0, 3	1, 1, 3	I_3, II, I_3	3 : 2, 3
B2	1	-1	0	93	-235	0	1	-	9, 9, 1	9, 0, 1	1, 1, 1	I_9, IV^*, I_1	3 : 1
B3	1	-1	0	-1062	13590	0	3	-	1, 5, 1	1, 0, 1	1, 3, 1	I_1, IV, I_1	3 : 1
C1	1	-1	1	-2	-107	0	1	-	2, 11, 1	2, 0, 1	2, 1, 1	I_2, II^*, I_1	
D1	1	-1	0	0	4	1	1	-	2, 5, 1	2, 0, 1	2, 3, 1	I_2, IV, I_1	
E1	1	-1	1	-11	-37	0	3	-	6, 3, 3	6, 0, 3	6, 1, 3	I_6, II, I_3	3 : 2, 3
E2	1	-1	1	-1271	-17117	0	1	-	2, 9, 1	2, 0, 1	2, 3, 1	I_2, IV^*, I_1	3 : 1
E3	1	-1	1	94	929	0	3	-	18, 5, 1	18, 0, 1	18, 1, 1	I_{18}, IV, I_1	3 : 1
F1	1	-1	0	-141	681	1	3	-	2, 3, 1	2, 0, 1	2, 1, 1	I_2, II, I_1	3 : 2
F2	1	-1	0	-96	1088	1	3	-	6, 9, 3	6, 0, 3	2, 3, 3	I_6, IV^*, I_3	3 : 1, 3
F3	1	-1	0	849	-25939	1	1	-	18, 11, 1	18, 0, 1	2, 1, 1	I_{18}, II^*, I_1	3 : 2
G1	1	-1	1	3967	38449	0	1	-	5, 11, 7	5, 0, 7	5, 1, 1	I_5, II^*, I_7	
H1	1	-1	0	441	-1571	0	1	-	5, 5, 7	5, 0, 7	1, 1, 1	I_5, IV, I_7	
380	$N = 380 = 2^2 \cdot 5 \cdot 19$ (2 isogeny classes)												380
A1	0	0	0	-8	-3	1	2	+	4, 1, 2	0, 1, 2	1, 1, 2	IV, I_1, I_2	2 : 2
A2	0	0	0	-103	-402	1	2	+	8, 2, 1	0, 2, 1	1, 2, 1	IV^*, I_2, I_1	2 : 1
B1	0	-1	0	-921	10346	0	2	+	4, 5, 4	0, 5, 4	3, 1, 2	IV, I_5, I_4	2 : 2
B2	0	-1	0	884	44280	0	2	-	8, 10, 2	0, 10, 2	3, 2, 2	IV^*, I_{10}, I_2	2 : 1
381	$N = 381 = 3 \cdot 127$ (2 isogeny classes)												381
A1	0	1	1	-11	-16	1	1	+	5, 1	5, 1	5, 1	I_5, I_1	
B1	0	1	1	-4	-5	0	1	+	1, 1	1, 1	1, 1	I_1, I_1	
384	$N = 384 = 2^7 \cdot 3$ (8 isogeny classes)												384
A1	0	1	0	-3	-3	0	2	+	8, 1	0, 1	2, 1	III, I_1	2 : 2
A2	0	1	0	7	-9	0	2	-	13, 2	0, 2	2, 2	I_2^*, I_2	2 : 1
B1	0	-1	0	2	-2	0	2	-	7, 2	0, 2	1, 2	II, I_2	2 : 2
B2	0	-1	0	-13	-11	0	2	+	14, 1	0, 1	2, 1	III^*, I_1	2 : 1
C1	0	1	0	2	2	0	2	-	7, 2	0, 2	1, 2	II, I_2	2 : 2
C2	0	1	0	-13	11	0	2	+	14, 1	0, 1	2, 1	III^*, I_1	2 : 1
D1	0	-1	0	-3	3	1	2	+	8, 1	0, 1	2, 1	III, I_1	2 : 2
D2	0	-1	0	7	9	1	2	-	13, 2	0, 2	4, 2	I_2^*, I_2	2 : 1
E1	0	1	0	-6	-18	0	2	-	7, 6	0, 6	1, 6	II, I_6	2 : 2
E2	0	1	0	-141	-693	0	2	+	14, 3	0, 3	2, 3	III^*, I_3	2 : 1
F1	0	-1	0	-6	18	0	2	-	7, 6	0, 6	1, 2	II, I_6	2 : 2
F2	0	-1	0	-141	693	0	2	+	14, 3	0, 3	2, 1	III^*, I_3	2 : 1
G1	0	-1	0	-35	-69	0	2	+	8, 3	0, 3	2, 1	III, I_3	2 : 2
G2	0	-1	0	-25	-119	0	2	-	13, 6	0, 6	2, 2	I_2^*, I_6	2 : 1
H1	0	1	0	-35	69	1	2	+	8, 3	0, 3	2, 3	III, I_3	2 : 2

TABLE 1: ELLIPTIC CURVES 385A–390F

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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385 $N = 385 = 5 \cdot 7 \cdot 11$ (2 isogeny classes)**385**

A1	1	-1	1	-37	124	1	4	-	2, 1, 4	2, 1, 4	2, 1, 4	I_2, I_1, I_4	2 : 2
A2	1	-1	1	-642	6416	1	4	+	4, 2, 2	4, 2, 2	4, 2, 2	I_4, I_2, I_2	2 : 1, 3, 4
A3	1	-1	1	-697	5294	1	2	+	8, 4, 1	8, 4, 1	8, 2, 1	I_8, I_4, I_1	2 : 2
A4	1	-1	1	-10267	402966	1	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
B1	1	0	0	0	7	1	2	-	2, 1, 2	2, 1, 2	2, 1, 2	I_2, I_1, I_2	2 : 2
B2	1	0	0	-55	150	1	2	+	4, 2, 1	4, 2, 1	4, 2, 1	I_4, I_2, I_1	2 : 1

387 $N = 387 = 3^2 \cdot 43$ (5 isogeny classes)**387**

A1	0	0	1	-174	-887	0	1	-	10, 1	4, 1	2, 1	I_4^*, I_1	
B1	1	-1	0	-15	-46	1	1	-	9, 1	0, 1	2, 1	III^*, I_1	
C1	1	-1	1	-2	2	1	1	-	3, 1	0, 1	2, 1	III, I_1	
D1	1	-1	1	-221	1316	0	4	+	9, 1	3, 1	4, 1	I_3^*, I_1	2 : 2
D2	1	-1	1	-266	776	0	4	+	12, 2	6, 2	4, 2	I_6^*, I_2	2 : 1, 3, 4
D3	1	-1	1	-2201	-38698	0	2	+	18, 1	12, 1	4, 1	I_{12}^*, I_1	2 : 2
D4	1	-1	1	949	5150	0	2	-	9, 4	3, 4	2, 2	I_3^*, I_4	2 : 2
E1	0	0	1	-3	-9	0	1	-	6, 1	0, 1	2, 1	I_0^*, I_1	

389 $N = 389 = 389$ (1 isogeny class)**389**

A1	0	1	1	-2	0	2	1	+	1	1	1	I_1	
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390 $N = 390 = 2 \cdot 3 \cdot 5 \cdot 13$ (7 isogeny classes)**390**

A1	1	1	0	-13	13	1	2	+	4, 2, 1, 1	4, 2, 1, 1	2, 2, 1, 1	I_4, I_2, I_1, I_1	2 : 2
A2	1	1	0	-33	-63	1	4	+	2, 4, 2, 2	2, 4, 2, 2	2, 2, 2, 2	I_2, I_4, I_2, I_2	2 : 1, 3, 4
A3	1	1	0	-483	-4293	1	2	+	1, 2, 1, 4	1, 2, 1, 4	1, 2, 1, 2	I_1, I_2, I_1, I_4	2 : 2
A4	1	1	0	97	-297	1	2	-	1, 8, 4, 1	1, 8, 4, 1	1, 2, 2, 1	I_1, I_8, I_4, I_1	2 : 2
B1	1	1	1	15	15	0	4	-	8, 1, 2, 1	8, 1, 2, 1	8, 1, 2, 1	I_8, I_1, I_2, I_1	2 : 2
B2	1	1	1	-65	47	0	8	+	4, 2, 4, 2	4, 2, 4, 2	4, 2, 4, 2	I_4, I_2, I_4, I_2	2 : 1, 3, 4
B3	1	1	1	-565	-5353	0	4	+	2, 4, 2, 4	2, 4, 2, 4	2, 2, 2, 4	I_2, I_4, I_2, I_4	2 : 2, 5, 6
B4	1	1	1	-845	9095	0	4	+	2, 1, 8, 1	2, 1, 8, 1	2, 1, 8, 1	I_2, I_1, I_8, I_1	2 : 2
B5	1	1	1	-9015	-333213	0	2	+	1, 8, 1, 2	1, 8, 1, 2	1, 2, 1, 2	I_1, I_8, I_1, I_2	2 : 3
B6	1	1	1	-115	-13093	0	2	-	1, 2, 1, 8	1, 2, 1, 8	1, 2, 1, 8	I_1, I_2, I_1, I_8	2 : 3
C1	1	0	0	-6	36	0	6	-	6, 3, 2, 1	6, 3, 2, 1	6, 3, 2, 1	I_6, I_3, I_2, I_1	2 : 2; 3 : 3
C2	1	0	0	-206	1116	0	6	+	3, 6, 1, 2	3, 6, 1, 2	3, 6, 1, 2	I_3, I_6, I_1, I_2	2 : 1; 3 : 4
C3	1	0	0	54	-960	0	2	-	2, 1, 6, 3	2, 1, 6, 3	2, 1, 2, 3	I_2, I_1, I_6, I_3	2 : 4; 3 : 1
C4	1	0	0	-1196	-15210	0	2	+	1, 2, 3, 6	1, 2, 3, 6	1, 2, 1, 6	I_1, I_2, I_3, I_6	2 : 3; 3 : 2
D1	1	0	1	3997	3998	0	6	-	10, 9, 6, 1	10, 9, 6, 1	2, 9, 6, 1	I_{10}, I_9, I_6, I_1	2 : 2; 3 : 3
D2	1	0	1	-16003	27998	0	6	+	5, 18, 3, 2	5, 18, 3, 2	1, 18, 3, 2	I_5, I_{18}, I_3, I_2	2 : 1; 3 : 4
D3	1	0	1	-53378	-5124652	0	2	-	30, 3, 2, 3	30, 3, 2, 3	2, 3, 2, 3	I_{30}, I_3, I_2, I_3	2 : 4; 3 : 1
D4	1	0	1	-872578	-313799212	0	2	+	15, 6, 1, 6	15, 6, 1, 6	1, 6, 1, 6	I_{15}, I_6, I_1, I_6	2 : 3; 3 : 2
E1	1	1	1	4	-7	0	2	-	2, 3, 2, 1	2, 3, 2, 1	2, 1, 2, 1	I_2, I_3, I_2, I_1	2 : 2
E2	1	1	1	-46	-127	0	2	+	1, 6, 1, 2	1, 6, 1, 2	1, 2, 1, 2	I_1, I_6, I_1, I_2	2 : 1
F1	1	1	0	-52	-176	0	2	-	10, 1, 2, 1	10, 1, 2, 1	2, 1, 2, 1	I_{10}, I_1, I_2, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 390G–399C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
390	$N = 390 = 2 \cdot 3 \cdot 5 \cdot 13$ (continued)												390
G1	1	0	1	-289	3092	0	2	-	20, 1, 1, 2	20, 1, 1, 2	2, 1, 1, 2	I_{20}, I_1, I_1, I_2	2 : 2
G2	1	0	1	-5409	152596	0	4	+	10, 2, 2, 4	10, 2, 2, 4	2, 2, 2, 2	I_{10}, I_2, I_2, I_4	2 : 1, 3, 4
G3	1	0	1	-6209	104276	0	2	+	5, 4, 1, 8	5, 4, 1, 8	1, 4, 1, 2	I_5, I_4, I_1, I_8	2 : 2
G4	1	0	1	-86529	9789652	0	2	+	5, 1, 4, 2	5, 1, 4, 2	1, 1, 2, 2	I_5, I_1, I_4, I_2	2 : 2
392	$N = 392 = 2^3 \cdot 7^2$ (6 isogeny classes)												392
A1	0	0	0	49	-686	1	4	-	8, 7	0, 1	4, 4	I_1^*, I_1^*	2 : 2
A2	0	0	0	-931	-10290	1	4	+	10, 8	0, 2	2, 4	III^*, I_2^*	2 : 1, 3, 4
A3	0	0	0	-14651	-682570	1	2	+	11, 7	0, 1	1, 2	II^*, I_1^*	2 : 2
A4	0	0	0	-2891	47334	1	2	+	11, 10	0, 4	1, 4	II^*, I_4^*	2 : 2
B1	0	1	0	-800	-8359	0	1	+	4, 10	0, 0	2, 1	III, II^*	
C1	0	-1	0	-16	29	1	1	+	4, 4	0, 0	2, 3	III, IV	
D1	0	1	0	-16	1392	0	2	-	10, 7	0, 1	2, 2	III^*, I_1^*	2 : 2
D2	0	1	0	-1976	32752	0	2	+	11, 8	0, 2	1, 4	II^*, I_2^*	2 : 1
E1	0	0	0	-343	-2401	0	1	+	4, 8	0, 0	2, 1	III, IV^*	
F1	0	0	0	-7	7	1	1	+	4, 2	0, 0	2, 1	III, II	
395	$N = 395 = 5 \cdot 79$ (3 isogeny classes)												395
A1	1	-1	1	-7	14	0	4	-	4, 1	4, 1	4, 1	I_4, I_1	2 : 2
A2	1	-1	1	-132	614	0	4	+	2, 2	2, 2	2, 2	I_2, I_2	2 : 1, 3, 4
A3	1	-1	1	-157	384	0	2	+	1, 4	1, 4	1, 2	I_1, I_4	2 : 2
A4	1	-1	1	-2107	37744	0	2	+	1, 1	1, 1	1, 1	I_1, I_1	2 : 2
B1	1	1	1	-40	-128	0	2	-	6, 1	6, 1	6, 1	I_6, I_1	2 : 2
B2	1	1	1	-665	-6878	0	2	+	3, 2	3, 2	3, 2	I_3, I_2	2 : 1
C1	0	-1	1	-50	156	0	5	-	5, 1	5, 1	5, 1	I_5, I_1	5 : 2
C2	0	-1	1	300	-5724	0	1	-	1, 5	1, 5	1, 1	I_1, I_5	5 : 1
396	$N = 396 = 2^2 \cdot 3^2 \cdot 11$ (3 isogeny classes)												396
A1	0	0	0	-696	-8215	0	2	-	4, 16, 1	0, 10, 1	3, 4, 1	IV, I_{10}^*, I_1	2 : 2
A2	0	0	0	-11631	-482794	0	2	+	8, 11, 2	0, 5, 2	3, 2, 2	IV^*, I_5^*, I_2	2 : 1
B1	0	0	0	24	25	1	2	-	4, 8, 1	0, 2, 1	3, 4, 1	IV, I_2^*, I_1	2 : 2
B2	0	0	0	-111	214	1	2	+	8, 7, 2	0, 1, 2	3, 4, 2	IV^*, I_1^*, I_2	2 : 1
C1	0	0	0	24	52	0	1	-	8, 6, 1	0, 0, 1	1, 1, 1	IV^*, I_0^*, I_1	3 : 2
C2	0	0	0	-696	7108	0	3	-	8, 6, 3	0, 0, 3	3, 1, 3	IV^*, I_0^*, I_3	3 : 1
398	$N = 398 = 2 \cdot 199$ (1 isogeny class)												398
A1	1	1	0	-6	20	0	2	-	10, 1	10, 1	2, 1	I_{10}, I_1	2 : 2
A2	1	1	0	-166	756	0	2	+	5, 2	5, 2	1, 2	I_5, I_2	2 : 1
399	$N = 399 = 3 \cdot 7 \cdot 19$ (3 isogeny classes)												399
A1	1	1	0	-210	-441	1	2	+	5, 6, 1	5, 6, 1	1, 2, 1	I_5, I_6, I_1	2 : 2
A2	1	1	0	-1925	31458	1	2	+	10, 3, 2	10, 3, 2	2, 1, 2	I_{10}, I_3, I_2	2 : 1
B1	1	1	1	-13	-22	1	2	+	3, 2, 1	3, 2, 1	1, 2, 1	I_3, I_2, I_1	2 : 2
B2	1	1	1	-48	90	1	2	+	6, 1, 2	6, 1, 2	2, 1, 2	I_6, I_1, I_2	2 : 1
C1	1	0	0	-431	3408	0	2	+	1, 2, 3	1, 2, 3	1, 2, 1	I_1, I_2, I_3	2 : 2

TABLE 1: ELLIPTIC CURVES 400A–405B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies	
400	$N = 400 = 2^4 \cdot 5^2$ (8 isogeny classes)													400
A1	0	0	0	-50	-125	1	2	+	4, 7	0, 1	1, 4	II, I ₁ [*]	2 : 2	
A2	0	0	0	-175	750	1	4	+	8, 8	0, 2	2, 4	I ₀ [*] , I ₂ [*]	2 : 1, 3, 4	
A3	0	0	0	-2675	53250	1	4	+	10, 7	0, 1	4, 4	I ₂ [*] , I ₁ [*]	2 : 2	
A4	0	0	0	325	4250	1	2	-	10, 10	0, 4	2, 4	I ₂ [*] , I ₄ [*]	2 : 2	
B1	0	1	0	-48	-172	0	1	-	17, 2	5, 0	2, 1	I ₉ [*] , II	3 : 2; 5 : 3	
B2	0	1	0	352	1268	0	1	-	27, 2	15, 0	2, 1	I ₁₉ [*] , II	3 : 1; 5 : 4	
B3	0	1	0	-208	13588	0	1	-	13, 10	1, 0	2, 1	I ₅ [*] , II [*]	3 : 4; 5 : 1	
B4	0	1	0	-50208	4313588	0	1	-	15, 10	3, 0	2, 1	I ₇ [*] , II [*]	3 : 3; 5 : 2	
C1	0	-1	0	-8	112	1	1	-	13, 4	1, 0	4, 3	I ₅ [*] , IV	3 : 2; 5 : 3	
C2	0	-1	0	-2008	35312	1	1	-	15, 4	3, 0	4, 1	I ₇ [*] , IV	3 : 1; 5 : 4	
C3	0	-1	0	-1208	-19088	1	1	-	17, 8	5, 0	4, 3	I ₉ [*] , IV [*]	3 : 4; 5 : 1	
C4	0	-1	0	8792	140912	1	1	-	27, 8	15, 0	4, 1	I ₁₉ [*] , IV [*]	3 : 3; 5 : 2	
D1	0	-1	0	-3	2	0	2	+	4, 3	0, 0	1, 2	II, III	2 : 2	
D2	0	-1	0	-28	-48	0	2	+	8, 3	0, 0	2, 2	I ₀ [*] , III	2 : 1	
E1	0	1	0	-33	-62	0	2	+	4, 7	0, 1	1, 2	II, I ₁ [*]	2 : 2; 3 : 3	
E2	0	1	0	92	-312	0	2	-	8, 8	0, 2	1, 4	I ₀ [*] , I ₂ [*]	2 : 1; 3 : 4	
E3	0	1	0	-1033	12438	0	2	+	4, 9	0, 3	1, 2	II, I ₃ [*]	2 : 4; 3 : 1	
E4	0	1	0	-908	15688	0	2	-	8, 12	0, 6	1, 4	I ₀ [*] , I ₆ [*]	2 : 3; 3 : 2	
F1	0	1	0	-83	88	0	2	+	4, 9	0, 0	1, 2	II, III [*]	2 : 2	
F2	0	1	0	-708	-7412	0	2	+	8, 9	0, 0	2, 2	I ₀ [*] , III [*]	2 : 1	
G1	0	0	0	125	1250	0	1	-	11, 8	0, 0	2, 1	I ₃ [*] , IV [*]		
H1	0	0	0	5	10	1	1	-	11, 2	0, 0	4, 1	I ₃ [*] , II		
402	$N = 402 = 2 \cdot 3 \cdot 67$ (4 isogeny classes)													402
A1	1	1	0	-2	-12	1	1	-	8, 1, 1	8, 1, 1	2, 1, 1	I ₈ , I ₁ , I ₁		
B1	1	0	1	-10	-4	0	2	+	8, 1, 1	8, 1, 1	2, 1, 1	I ₈ , I ₁ , I ₁	2 : 2	
B2	1	0	1	-90	316	0	4	+	4, 2, 2	4, 2, 2	2, 2, 2	I ₄ , I ₂ , I ₂	2 : 1, 3, 4	
B3	1	0	1	-1430	20684	0	4	+	2, 4, 1	2, 4, 1	2, 4, 1	I ₂ , I ₄ , I ₁	2 : 2	
B4	1	0	1	-30	748	0	2	-	2, 1, 4	2, 1, 4	2, 1, 2	I ₂ , I ₁ , I ₄	2 : 2	
C1	1	1	1	-37	71	0	2	+	2, 3, 1	2, 3, 1	2, 1, 1	I ₂ , I ₃ , I ₁	2 : 2	
C2	1	1	1	-27	123	0	2	-	1, 6, 2	1, 6, 2	1, 2, 2	I ₁ , I ₆ , I ₂	2 : 1	
D1	1	0	1	-145	692	1	3	-	4, 9, 1	4, 9, 1	2, 9, 1	I ₄ , I ₉ , I ₁	3 : 2	
D2	1	0	1	800	1070	1	3	-	12, 3, 3	12, 3, 3	2, 3, 3	I ₁₂ , I ₃ , I ₃	3 : 1, 3	
D3	1	0	1	-10255	-438718	1	1	-	36, 1, 1	36, 1, 1	2, 1, 1	I ₃₆ , I ₁ , I ₁	3 : 2	
404	$N = 404 = 2^2 \cdot 101$ (2 isogeny classes)													404
A1	0	0	0	-8	4	1	1	+	8, 1	0, 1	3, 1	IV [*] , I ₁		
B1	0	1	0	-69	199	0	3	+	8, 1	0, 1	3, 1	IV [*] , I ₁	3 : 2	
B2	0	1	0	-229	-1161	0	1	+	8, 3	0, 3	1, 1	IV [*] , I ₃	3 : 1	
405	$N = 405 = 3^4 \cdot 5$ (6 isogeny classes)													405
A1	0	0	1	-12	15	0	3	+	4, 3	0, 3	1, 3	II, I ₃	3 : 2	
A2	0	0	1	-162	-790	0	1	+	12, 1	0, 1	1, 1	II [*] , I ₁	3 : 1	
B1	0	0	1	-18	29	1	3	+	6, 1	0, 1	3, 1	IV, I ₁	3 : 2	

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
405	$N = 405 = 3^4 \cdot 5$ (continued)												405
C1	1	-1	0	0	1	1	1	-	4, 1	0, 1	1, 1	II, I ₁	7 : 2
C2	1	-1	0	-225	-1250	1	1	-	4, 7	0, 7	1, 1	II, I ₇	7 : 1
D1	1	-1	1	-2	-26	1	1	-	10, 1	0, 1	3, 1	IV*, I ₁	7 : 2
D2	1	-1	1	-2027	35776	1	1	-	10, 7	0, 7	3, 7	IV*, I ₇	7 : 1
E1	0	0	1	-27	47	0	1	+	10, 1	0, 1	1, 1	IV*, I ₁	
F1	0	0	1	-3	-2	1	1	+	4, 1	0, 1	1, 1	II, I ₁	
406	$N = 406 = 2 \cdot 7 \cdot 29$ (4 isogeny classes)												406
A1	1	-1	0	-302	2260	1	2	-	10, 3, 2	10, 3, 2	2, 1, 2	I ₁₀ , I ₃ , I ₂	2 : 2
A2	1	-1	0	-4942	134964	1	2	+	5, 6, 1	5, 6, 1	1, 2, 1	I ₅ , I ₆ , I ₁	2 : 1
B1	1	0	1	-15	210	1	3	-	4, 2, 3	4, 2, 3	2, 2, 3	I ₄ , I ₂ , I ₃	3 : 2
B2	1	0	1	130	-5648	1	1	-	12, 6, 1	12, 6, 1	2, 6, 1	I ₁₂ , I ₆ , I ₁	3 : 1
C1	1	1	1	-102	355	1	1	-	8, 2, 1	8, 2, 1	8, 2, 1	I ₈ , I ₂ , I ₁	
D1	1	1	0	-2124	-60592	0	2	-	16, 5, 2	16, 5, 2	2, 5, 2	I ₁₆ , I ₅ , I ₂	2 : 2
D2	1	1	0	-39244	-3007920	0	2	+	8, 10, 1	8, 10, 1	2, 10, 1	I ₈ , I ₁₀ , I ₁	2 : 1
408	$N = 408 = 2^3 \cdot 3 \cdot 17$ (4 isogeny classes)												408
A1	0	1	0	-48	-144	0	2	+	10, 2, 1	0, 2, 1	2, 2, 1	III*, I ₂ , I ₁	2 : 2
A2	0	1	0	-8	-336	0	2	-	11, 4, 2	0, 4, 2	1, 4, 2	II*, I ₄ , I ₂	2 : 1
B1	0	1	0	-52	128	0	4	+	8, 2, 1	0, 2, 1	4, 2, 1	I ₁ *, I ₂ , I ₁	2 : 2
B2	0	1	0	-72	0	0	4	+	10, 4, 2	0, 4, 2	2, 4, 2	III*, I ₄ , I ₂	2 : 1, 3, 4
B3	0	1	0	-752	-8160	0	2	+	11, 8, 1	0, 8, 1	1, 8, 1	II*, I ₈ , I ₁	2 : 2
B4	0	1	0	288	288	0	2	-	11, 2, 4	0, 2, 4	1, 2, 4	II*, I ₂ , I ₄	2 : 2
C1	0	-1	0	511	-1899	0	1	-	8, 3, 5	0, 3, 5	2, 1, 1	I ₁ *, I ₃ , I ₅	
D1	0	1	0	-17	51	1	1	-	8, 5, 1	0, 5, 1	4, 5, 1	I ₁ *, I ₅ , I ₁	
410	$N = 410 = 2 \cdot 5 \cdot 41$ (4 isogeny classes)												410
A1	1	-1	0	-14	20	1	2	+	6, 2, 1	6, 2, 1	2, 2, 1	I ₆ , I ₂ , I ₁	2 : 2
A2	1	-1	0	-214	1260	1	2	+	3, 1, 2	3, 1, 2	1, 1, 2	I ₃ , I ₁ , I ₂	2 : 1
B1	1	-1	1	-1387	-18501	0	4	+	24, 2, 1	24, 2, 1	24, 2, 1	I ₂₄ , I ₂ , I ₁	2 : 2
B2	1	-1	1	-21867	-1239109	0	4	+	12, 4, 2	12, 4, 2	12, 4, 2	I ₁₂ , I ₄ , I ₂	2 : 1, 3, 4
B3	1	-1	1	-349867	-79565509	0	2	+	6, 2, 1	6, 2, 1	6, 2, 1	I ₆ , I ₂ , I ₁	2 : 2
B4	1	-1	1	-21547	-1277381	0	4	-	6, 8, 4	6, 8, 4	6, 8, 4	I ₆ , I ₈ , I ₄	2 : 2
C1	1	0	1	-168	806	0	6	+	4, 6, 1	4, 6, 1	2, 6, 1	I ₄ , I ₆ , I ₁	2 : 2; 3 : 3
C2	1	0	1	-2668	52806	0	6	+	2, 3, 2	2, 3, 2	2, 3, 2	I ₂ , I ₃ , I ₂	2 : 1; 3 : 4
C3	1	0	1	-1543	-23094	0	2	+	12, 2, 3	12, 2, 3	2, 2, 1	I ₁₂ , I ₂ , I ₃	2 : 4; 3 : 1
C4	1	0	1	-3143	32586	0	2	+	6, 1, 6	6, 1, 6	2, 1, 2	I ₆ , I ₁ , I ₆	2 : 3; 3 : 2
D1	1	0	0	-16	0	1	2	+	8, 2, 1	8, 2, 1	8, 2, 1	I ₈ , I ₂ , I ₁	2 : 2
D2	1	0	0	64	16	1	2	-	4, 4, 2	4, 4, 2	4, 2, 2	I ₄ , I ₄ , I ₂	2 : 1
414	$N = 414 = 2 \cdot 3^2 \cdot 23$ (4 isogeny classes)												414
A1	1	-1	1	-320	-2221	0	2	-	4, 12, 1	4, 6, 1	4, 4, 1	I ₄ , I ₆ *, I ₁	2 : 2; 3 : 3
A2	1	-1	1	-5180	-142189	0	2	+	2, 9, 2	2, 3, 2	2, 4, 2	I ₂ , I ₃ *, I ₂	2 : 1; 3 : 4
A3	1	-1	1	1705	-5137	0	6	-	12, 8, 3	12, 2, 3	12, 4, 3	I ₁₂ , I ₃ *, I ₂	2 : 4; 3 : 1

TABLE 1: ELLIPTIC CURVES 414B–423B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
414	$N = 414 = 2 \cdot 3^2 \cdot 23$ (continued)												414
B1	1	-1	1	-14	-39	0	2	-	2, 8, 1	2, 2, 1	2, 4, 1	I_2, I_2^*, I_1	2 : 2
B2	1	-1	1	-284	-1767	0	2	+	1, 7, 2	1, 1, 2	1, 4, 2	I_1, I_1^*, I_2	2 : 1
C1	1	-1	0	27	-59	1	2	-	4, 8, 1	4, 2, 1	2, 4, 1	I_4, I_2^*, I_1	2 : 2
C2	1	-1	0	-153	-455	1	4	+	2, 10, 2	2, 4, 2	2, 4, 2	I_2, I_4^*, I_2	2 : 1, 3, 4
C3	1	-1	0	-2223	-39785	1	2	+	1, 14, 1	1, 8, 1	1, 4, 1	I_1, I_8^*, I_1	2 : 2
C4	1	-1	0	-963	11371	1	2	+	1, 8, 4	1, 2, 4	1, 2, 4	I_1, I_2^*, I_4	2 : 2
D1	1	-1	1	-92	415	1	2	-	10, 6, 1	10, 0, 1	10, 4, 1	I_{10}, I_0^*, I_1	2 : 2
D2	1	-1	1	-1532	23455	1	2	+	5, 6, 2	5, 0, 2	5, 2, 2	I_5, I_0^*, I_2	2 : 1
415	$N = 415 = 5 \cdot 83$ (1 isogeny class)												415
A1	1	-1	0	-109	-412	0	1	-	4, 1	4, 1	4, 1	I_4, I_1	
416	$N = 416 = 2^5 \cdot 13$ (2 isogeny classes)												416
A1	0	1	0	0	-4	0	1	-	9, 1	0, 1	1, 1	I_0^*, I_1	
B1	0	-1	0	0	4	1	1	-	9, 1	0, 1	2, 1	I_0^*, I_1	
417	$N = 417 = 3 \cdot 139$ (1 isogeny class)												417
A1	1	1	0	26	73	0	1	-	9, 1	9, 1	1, 1	I_9, I_1	
418	$N = 418 = 2 \cdot 11 \cdot 19$ (3 isogeny classes)												418
A1	1	-1	1	-4	3	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
A2	1	-1	1	6	11	0	2	-	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1
B1	1	1	1	66	-5	1	1	-	13, 2, 1	13, 2, 1	13, 2, 1	I_{13}, I_2, I_1	
C1	1	-1	1	-6	-5	0	1	-	1, 2, 1	1, 2, 1	1, 2, 1	I_1, I_2, I_1	
420	$N = 420 = 2^2 \cdot 3 \cdot 5 \cdot 7$ (4 isogeny classes)												420
A1	0	-1	0	-4061	67590	0	2	+	4, 7, 10, 1	0, 7, 10, 1	3, 1, 2, 1	IV, I_7, I_{10}, I_1	2 : 2
A2	0	-1	0	11564	448840	0	2	-	8, 14, 5, 2	0, 14, 5, 2	3, 2, 1, 2	IV^*, I_{14}, I_5, I_2	2 : 1
B1	0	-1	0	-565	5362	0	2	+	4, 5, 2, 1	0, 5, 2, 1	1, 1, 2, 1	IV, I_5, I_2, I_1	2 : 2
B2	0	-1	0	-540	5832	0	2	-	8, 10, 1, 2	0, 10, 1, 2	1, 2, 1, 2	IV^*, I_{10}, I_1, I_2	2 : 1
C1	0	1	0	-61	164	0	6	+	4, 3, 2, 1	0, 3, 2, 1	3, 3, 2, 1	IV, I_3, I_2, I_1	2 : 2; 3 : 3
C2	0	1	0	-36	324	0	6	-	8, 6, 1, 2	0, 6, 1, 2	3, 6, 1, 2	IV^*, I_6, I_1, I_2	2 : 1; 3 : 4
C3	0	1	0	-301	-1960	0	2	+	4, 1, 6, 3	0, 1, 6, 3	1, 1, 2, 3	IV, I_1, I_6, I_3	2 : 4; 3 : 1
C4	0	1	0	324	-8460	0	2	-	8, 2, 3, 6	0, 2, 3, 6	1, 2, 1, 6	IV^*, I_2, I_3, I_6	2 : 3; 3 : 2
D1	0	1	0	-5	0	0	2	+	4, 1, 2, 1	0, 1, 2, 1	1, 1, 2, 1	IV, I_1, I_2, I_1	2 : 2
D2	0	1	0	20	20	0	2	-	8, 2, 1, 2	0, 2, 1, 2	1, 2, 1, 2	IV^*, I_2, I_1, I_2	2 : 1
422	$N = 422 = 2 \cdot 211$ (1 isogeny class)												422
A1	1	-1	0	1	-3	1	1	-	4, 1	4, 1	2, 1	I_4, I_1	
423	$N = 423 = 3^2 \cdot 47$ (7 isogeny classes)												423
A1	0	0	1	-12	4	1	1	+	7, 1	1, 1	4, 1	I_1^*, I_1	
B1	1	-1	0	-72	355	0	2	-	12, 1	6, 1	4, 1	I_1^*, I_1	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
423	$N = 423 = 3^2 \cdot 47$ (continued)												423
C1	1	-1	0	-18	-81	1	2	-	10, 1	4, 1	4, 1	I_4^*, I_1	2 : 2
C2	1	-1	0	-423	-3240	1	4	+	8, 2	2, 2	4, 2	I_2^*, I_2	2 : 1, 3, 4
C3	1	-1	0	-6768	-212625	1	2	+	7, 1	1, 1	2, 1	I_1^*, I_1	2 : 2
C4	1	-1	0	-558	-891	1	4	+	7, 4	1, 4	4, 4	I_1^*, I_4	2 : 2
D1	0	0	1	-81	-277	0	1	+	9, 1	0, 1	2, 1	III^*, I_1	
E1	0	0	1	-111	-171	0	1	+	13, 1	7, 1	2, 1	I_7^*, I_1	
F1	0	0	1	-237	1404	1	1	+	7, 1	1, 1	2, 1	I_1^*, I_1	
G1	0	0	1	-9	10	1	1	+	3, 1	0, 1	2, 1	III, I_1	
425	$N = 425 = 5^2 \cdot 17$ (4 isogeny classes)												425
A1	1	-1	0	-17	16	1	2	+	6, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
A2	1	-1	0	-142	-609	1	4	+	6, 2	0, 2	4, 2	I_0^*, I_2	2 : 1, 3, 4
A3	1	-1	0	-2267	-40984	1	2	+	6, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
A4	1	-1	0	-17	-1734	1	2	-	6, 4	0, 4	4, 2	I_0^*, I_4	2 : 2
B1	1	1	0	-75	250	1	1	-	8, 1	0, 1	3, 1	IV^*, I_1	
C1	1	0	0	-3	2	1	1	-	2, 1	0, 1	1, 1	II, I_1	
D1	1	0	0	-213	-1208	1	2	+	8, 1	2, 1	2, 1	I_2^*, I_1	2 : 2
D2	1	0	0	-88	-2583	1	2	-	10, 2	4, 2	4, 2	I_4^*, I_2	2 : 1
426	$N = 426 = 2 \cdot 3 \cdot 71$ (3 isogeny classes)												426
A1	1	0	0	-20	48	0	5	-	5, 5, 1	5, 5, 1	5, 5, 1	I_5, I_5, I_1	5 : 2
A2	1	0	0	-230	-5202	0	1	-	1, 1, 5	1, 1, 5	1, 1, 5	I_1, I_1, I_5	5 : 1
B1	1	1	0	-286	1780	1	2	-	10, 6, 1	10, 6, 1	2, 2, 1	I_{10}, I_6, I_1	2 : 2
B2	1	1	0	-4606	118420	1	2	+	5, 3, 2	5, 3, 2	1, 1, 2	I_5, I_3, I_2	2 : 1
C1	1	0	1	-23007	1341682	0	3	-	9, 15, 1	9, 15, 1	1, 15, 1	I_9, I_{15}, I_1	3 : 2
C2	1	0	1	14658	5154352	0	1	-	27, 5, 3	27, 5, 3	1, 5, 1	I_{27}, I_5, I_3	3 : 1
427	$N = 427 = 7 \cdot 61$ (3 isogeny classes)												427
A1	0	-1	1	-1	-1	0	1	-	1, 1	1, 1	1, 1	I_1, I_1	
B1	1	0	1	-8	7	1	1	+	1, 1	1, 1	1, 1	I_1, I_1	
C1	1	0	0	-28	-59	1	1	+	3, 1	3, 1	1, 1	I_3, I_1	
428	$N = 428 = 2^2 \cdot 107$ (2 isogeny classes)												428
A1	0	1	0	-157	-812	0	1	-	4, 1	0, 1	3, 1	IV, I_1	
B1	0	-1	0	3	-2	1	1	-	4, 1	0, 1	3, 1	IV, I_1	
429	$N = 429 = 3 \cdot 11 \cdot 13$ (2 isogeny classes)												429
A1	1	1	1	2	2	1	2	-	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
A2	1	1	1	-13	8	1	2	+	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1
B1	1	0	0	-24	63	1	4	-	8, 1, 1	8, 1, 1	8, 1, 1	I_8, I_1, I_1	2 : 2
B2	1	0	0	-429	3384	1	8	+	4, 2, 2	4, 2, 2	4, 2, 2	I_4, I_2, I_2	2 : 1, 3, 4
B3	1	0	0	-474	2619	1	4	+	2, 4, 4	2, 4, 4	2, 2, 4	I_2, I_4, I_4	2 : 2, 5, 6
B4	1	0	0	-6864	218313	1	4	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
B5	1	0	0	-3009	-61770	1	2	+	1, 8, 2	1, 8, 2	1, 2, 2	I_1, I_8, I_2	2 : 3

TABLE 1: ELLIPTIC CURVES 430A–434E

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
430	$N = 430 = 2 \cdot 5 \cdot 43$ (4 isogeny classes)												430
A1	1	-1	0	-20	40	1	1	-	3, 1, 1	3, 1, 1	1, 1, 1	I_3, I_1, I_1	
B1	1	-1	0	16	-10	1	1	-	1, 5, 1	1, 5, 1	1, 5, 1	I_1, I_5, I_1	
C1	1	0	0	4	16	1	3	-	9, 1, 1	9, 1, 1	9, 1, 1	I_9, I_1, I_1	3 : 2
C2	1	0	0	-36	-440	1	3	-	3, 3, 3	3, 3, 3	3, 1, 3	I_3, I_3, I_3	3 : 1, 3
C3	1	0	0	-5626	-162894	1	1	-	1, 9, 1	1, 9, 1	1, 1, 1	I_1, I_9, I_1	3 : 2
D1	1	0	0	-1415	20617	1	1	-	15, 5, 1	15, 5, 1	15, 5, 1	I_{15}, I_5, I_1	
431	$N = 431 = 431$ (2 isogeny classes)												431
A1	1	0	0	0	-1	1	1	-	1	1	1	I_1	
B1	1	-1	1	-9	-8	0	1	-	1	1	1	I_1	
432	$N = 432 = 2^4 \cdot 3^3$ (8 isogeny classes)												432
A1	0	0	0	0	-16	0	1	-	12, 3	0, 0	1, 1	II^*, II	3 : 2, 3
A2	0	0	0	-480	-4048	0	1	-	12, 5	0, 0	1, 3	II^*, IV	3 : 1
A3	0	0	0	0	432	0	1	-	12, 9	0, 0	1, 1	II^*, IV^*	3 : 1, 4
A4	0	0	0	-4320	109296	0	1	-	12, 11	0, 0	1, 1	II^*, II^*	3 : 3
B1	0	0	0	0	-4	1	1	-	8, 3	0, 0	2, 1	I_0^*, II	3 : 2
B2	0	0	0	0	108	1	1	-	8, 9	0, 0	2, 3	I_0^*, IV^*	3 : 1
C1	0	0	0	-27	-918	0	1	-	11, 11	0, 0	2, 1	I_3^*, II^*	
D1	0	0	0	-3	34	1	1	-	11, 5	0, 0	4, 3	I_3^*, IV	
E1	0	0	0	-51	-142	0	1	-	13, 3	1, 0	2, 1	I_5^*, II	3 : 2
E2	0	0	0	189	-702	0	1	-	15, 9	3, 0	2, 1	I_7^*, IV^*	3 : 1, 3
E3	0	0	0	-1971	44658	0	1	-	21, 11	9, 0	2, 1	I_{13}^*, II^*	3 : 2
F1	0	0	0	21	26	1	1	-	15, 3	3, 0	4, 1	I_7^*, II	3 : 2, 3
F2	0	0	0	-219	-1654	1	1	-	21, 5	9, 0	4, 1	I_{13}^*, IV	3 : 1
F3	0	0	0	-459	3834	1	1	-	13, 9	1, 0	4, 3	I_5^*, IV^*	3 : 1
G1	0	0	0	-108	540	0	1	-	8, 11	0, 0	1, 1	I_0^*, II^*	
H1	0	0	0	-12	-20	0	1	-	8, 5	0, 0	1, 1	I_0^*, IV	
433	$N = 433 = 433$ (1 isogeny class)												433
A1	1	0	0	0	1	2	1	-	1	1	1	I_1	
434	$N = 434 = 2 \cdot 7 \cdot 31$ (5 isogeny classes)												434
A1	1	-1	0	-7	-3	1	2	+	6, 1, 1	6, 1, 1	2, 1, 1	I_6, I_1, I_1	2 : 2
A2	1	-1	0	-47	133	1	2	+	3, 2, 2	3, 2, 2	1, 2, 2	I_3, I_2, I_2	2 : 1
B1	1	0	0	-4	16	0	3	-	9, 1, 1	9, 1, 1	9, 1, 1	I_9, I_1, I_1	3 : 2
B2	1	0	0	36	-424	0	3	-	3, 3, 3	3, 3, 3	3, 3, 3	I_3, I_3, I_3	3 : 1, 3
B3	1	0	0	-3374	-75754	0	1	-	1, 9, 1	1, 9, 1	1, 9, 1	I_1, I_9, I_1	3 : 2
C1	1	1	1	-32	61	0	2	-	2, 4, 1	2, 4, 1	2, 2, 1	I_2, I_4, I_1	2 : 2
C2	1	1	1	-522	4373	0	2	+	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1
D1	1	0	0	21	49	1	2	-	10, 2, 1	10, 2, 1	10, 2, 1	I_{10}, I_2, I_1	2 : 2
D2	1	0	0	-139	465	1	2	+	5, 4, 2	5, 4, 2	5, 4, 2	I_5, I_4, I_2	2 : 1

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
435	$N = 435 = 3 \cdot 5 \cdot 29$ (4 isogeny classes)												435
A1	0	1	1	-11	11	0	3	-	3, 1, 1	3, 1, 1	3, 1, 1	I_3, I_1, I_1	3 : 2
A2	0	1	1	49	80	0	1	-	1, 3, 3	1, 3, 3	1, 1, 1	I_1, I_3, I_3	3 : 1
B1	0	-1	1	79	-1123	0	1	-	5, 7, 1	5, 7, 1	1, 1, 1	I_5, I_7, I_1	
C1	1	0	1	-28	53	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
C2	1	0	1	-33	31	0	4	+	4, 2, 2	4, 2, 2	4, 2, 2	I_4, I_2, I_2	2 : 1, 3, 4
C3	1	0	1	-258	-1589	0	2	+	2, 1, 4	2, 1, 4	2, 1, 4	I_2, I_1, I_4	2 : 2
C4	1	0	1	112	263	0	4	-	8, 4, 1	8, 4, 1	8, 4, 1	I_8, I_4, I_1	2 : 2
D1	1	0	0	-30	-45	0	4	+	8, 1, 1	8, 1, 1	8, 1, 1	I_8, I_1, I_1	2 : 2
D2	1	0	0	-435	-3528	0	4	+	4, 2, 2	4, 2, 2	4, 2, 2	I_4, I_2, I_2	2 : 1, 3, 4
D3	1	0	0	-6960	-224073	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
D4	1	0	0	-390	-4275	0	4	-	2, 4, 4	2, 4, 4	2, 4, 4	I_2, I_4, I_4	2 : 2
437	$N = 437 = 19 \cdot 23$ (2 isogeny classes)												437
A1	0	-1	1	19	100	1	1	-	1, 4	1, 4	1, 4	I_1, I_4	
B1	0	-1	1	0	-5	0	1	-	1, 2	1, 2	1, 2	I_1, I_2	
438	$N = 438 = 2 \cdot 3 \cdot 73$ (7 isogeny classes)												438
A1	1	0	0	-938	-9564	0	6	+	18, 6, 1	18, 6, 1	18, 6, 1	I_{18}, I_6, I_1	2 : 2; 3 : 3
A2	1	0	0	1622	-52060	0	6	-	9, 12, 2	9, 12, 2	9, 12, 2	I_9, I_{12}, I_2	2 : 1; 3 : 4
A3	1	0	0	-72938	-7587996	0	2	+	6, 2, 3	6, 2, 3	6, 2, 3	I_6, I_2, I_3	2 : 4; 3 : 1
A4	1	0	0	-72898	-7596724	0	2	-	3, 4, 6	3, 4, 6	3, 4, 6	I_3, I_4, I_6	2 : 3; 3 : 2
B1	1	0	0	-13	-19	0	2	+	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	2 : 2
B2	1	0	0	-3	-45	0	2	-	1, 4, 2	1, 4, 2	1, 4, 2	I_1, I_4, I_2	2 : 1
C1	1	1	0	-5	-3	1	2	+	4, 2, 1	4, 2, 1	2, 2, 1	I_4, I_2, I_1	2 : 2
C2	1	1	0	-65	-231	1	2	+	2, 1, 2	2, 1, 2	2, 1, 2	I_2, I_1, I_2	2 : 1
D1	1	0	1	-1946	32780	1	6	+	6, 12, 1	6, 12, 1	2, 12, 1	I_6, I_{12}, I_1	2 : 2; 3 : 3
D2	1	0	1	-31106	2108972	1	6	+	3, 6, 2	3, 6, 2	1, 6, 2	I_3, I_6, I_2	2 : 1; 3 : 4
D3	1	0	1	-9641	-337876	1	2	+	18, 4, 3	18, 4, 3	2, 4, 3	I_{18}, I_4, I_3	2 : 4; 3 : 1
D4	1	0	1	-32681	1883180	1	2	+	9, 2, 6	9, 2, 6	1, 2, 6	I_9, I_2, I_6	2 : 3; 3 : 2
E1	1	0	1	-130	-556	0	2	+	14, 2, 1	14, 2, 1	2, 2, 1	I_{14}, I_2, I_1	2 : 2
E2	1	0	1	-2050	-35884	0	2	+	7, 1, 2	7, 1, 2	1, 1, 2	I_7, I_1, I_2	2 : 1
F1	1	1	1	-19	17	1	4	+	8, 2, 1	8, 2, 1	8, 2, 1	I_8, I_2, I_1	2 : 2
F2	1	1	1	-99	-399	1	4	+	4, 4, 2	4, 4, 2	4, 2, 2	I_4, I_4, I_2	2 : 1, 3, 4
F3	1	1	1	-1559	-24343	1	2	+	2, 8, 1	2, 8, 1	2, 2, 1	I_2, I_8, I_1	2 : 2
F4	1	1	1	81	-1479	1	4	-	2, 2, 4	2, 2, 4	2, 2, 4	I_2, I_2, I_4	2 : 2
G1	1	0	1	-8	2	1	2	+	2, 4, 1	2, 4, 1	2, 4, 1	I_2, I_4, I_1	2 : 2
G2	1	0	1	-98	362	1	2	+	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1
440	$N = 440 = 2^3 \cdot 5 \cdot 11$ (4 isogeny classes)												440
A1	0	0	0	-38	-87	1	2	+	4, 3, 2	0, 3, 2	2, 1, 2	III, I_3, I_2	2 : 2
A2	0	0	0	17	-318	1	2	-	8, 6, 1	0, 6, 1	2, 2, 1	I_1^*, I_6, I_1	2 : 1
B1	0	0	0	2	-3	1	2	-	4, 2, 1	0, 2, 1	2, 2, 1	III, I_2, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 440C–443C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
440	$N = 440 = 2^3 \cdot 5 \cdot 11$ (continued)												440
C1	0	0	0	−5042	137801	0	4	+	4, 3, 2	0, 3, 2	2, 3, 2	III, I ₃ , I ₂	2 : 2
C2	0	0	0	−5047	137514	0	4	+	8, 6, 4	0, 6, 4	2, 6, 2	I ₁ [*] , I ₆ , I ₄	2 : 1, 3, 4
C3	0	0	0	−7547	−12986	0	2	+	10, 3, 8	0, 3, 8	2, 3, 2	III [*] , I ₃ , I ₈	2 : 2
C4	0	0	0	−2627	269646	0	4	−	10, 12, 2	0, 12, 2	2, 12, 2	III [*] , I ₁₂ , I ₂	2 : 2
D1	0	0	0	−67	−226	0	1	−	11, 3, 1	0, 3, 1	1, 3, 1	II [*] , I ₃ , I ₁	

441	$N = 441 = 3^2 \cdot 7^2$ (6 isogeny classes)												441
A1	0	0	1	0	−4202	0	1	−	3, 10	0, 0	2, 1	III, II [*]	3 : 2
A2	0	0	1	0	113447	0	1	−	9, 10	0, 0	2, 1	III [*] , II [*]	3 : 1
B1	0	0	1	0	12	1	3	−	3, 4	0, 0	2, 3	III, IV	3 : 2
B2	0	0	1	0	−331	1	1	−	9, 4	0, 0	2, 3	III [*] , IV	3 : 1
C1	1	−1	0	432	−869	1	2	−	8, 7	2, 1	2, 4	I ₂ [*] , I ₁ [*]	2 : 2
C2	1	−1	0	−1773	−5720	1	4	+	10, 8	4, 2	4, 4	I ₄ [*] , I ₂ [*]	2 : 1, 3, 4
C3	1	−1	0	−21618	−1216265	1	4	+	8, 10	2, 4	4, 4	I ₂ [*] , I ₄ [*]	2 : 2, 5, 6
C4	1	−1	0	−17208	867901	1	2	+	14, 7	8, 1	4, 2	I ₈ [*] , I ₁ [*]	2 : 2
C5	1	−1	0	−345753	−78165914	1	2	+	7, 8	1, 2	2, 2	I ₁ [*] , I ₂ [*]	2 : 3
C6	1	−1	0	−15003	−1979636	1	2	−	7, 14	1, 8	4, 4	I ₁ [*] , I ₈ [*]	2 : 3
D1	1	−1	1	−20	46	1	2	−	6, 3	0, 0	2, 2	I ₀ [*] , III	2 : 2; 7 : 3
D2	1	−1	1	−335	2440	1	2	+	6, 3	0, 0	4, 2	I ₀ [*] , III	2 : 1; 7 : 4
D3	1	−1	1	−965	−13940	1	2	−	6, 9	0, 0	2, 2	I ₀ [*] , III [*]	2 : 4; 7 : 1
D4	1	−1	1	−16400	−804212	1	2	+	6, 9	0, 0	4, 2	I ₀ [*] , III [*]	2 : 3; 7 : 2
E1	0	0	1	−1029	−13806	0	1	−	7, 8	1, 0	2, 1	I ₁ [*] , IV [*]	13 : 2
E2	0	0	1	−402339	98307144	0	1	−	19, 8	13, 0	2, 1	I ₁₃ [*] , IV [*]	13 : 1
F1	0	0	1	−21	40	1	1	−	7, 2	1, 0	4, 1	I ₁ [*] , II	13 : 2
F2	0	0	1	−8211	−286610	1	1	−	19, 2	13, 0	4, 1	I ₁₃ [*] , II	13 : 1

442	$N = 442 = 2 \cdot 13 \cdot 17$ (5 isogeny classes)												442
A1	1	−1	1	−94	361	0	2	+	2, 2, 3	2, 2, 3	2, 2, 1	I ₂ , I ₂ , I ₃	2 : 2
A2	1	−1	1	36	1193	0	2	−	1, 1, 6	1, 1, 6	1, 1, 2	I ₁ , I ₁ , I ₆	2 : 1
B1	1	−1	1	−172	−465	1	2	+	8, 2, 3	8, 2, 3	8, 2, 3	I ₈ , I ₂ , I ₃	2 : 2
B2	1	−1	1	−1212	16175	1	2	+	4, 1, 6	4, 1, 6	4, 1, 6	I ₄ , I ₁ , I ₆	2 : 1
C1	1	1	0	−54	−172	0	2	+	8, 2, 1	8, 2, 1	2, 2, 1	I ₈ , I ₂ , I ₁	2 : 2
C2	1	1	0	26	−540	0	2	−	4, 4, 2	4, 4, 2	2, 2, 2	I ₄ , I ₄ , I ₂	2 : 1
D1	1	1	1	−9	−13	0	2	+	2, 2, 1	2, 2, 1	2, 2, 1	I ₂ , I ₂ , I ₁	2 : 2
D2	1	1	1	−139	−689	0	2	+	1, 1, 2	1, 1, 2	1, 1, 2	I ₁ , I ₁ , I ₂	2 : 1
E1	1	1	1	−144951	7520141	0	2	+	22, 4, 5	22, 4, 5	22, 2, 1	I ₂₂ , I ₄ , I ₅	2 : 2
E2	1	1	1	−1875511	987017101	0	2	+	11, 2, 10	11, 2, 10	11, 2, 2	I ₁₁ , I ₂ , I ₁₀	2 : 1

443	$N = 443 = 443$ (3 isogeny classes)												443
A1	0	1	1	1	1	1	1	−	1	1	1	I ₁	
B1	1	0	0	−3	−2	1	1	+	1	1	1	I ₁	

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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444 **444**
 $N = 444 = 2^2 \cdot 3 \cdot 37$ (2 isogeny classes)

A1	0	-1	0	-13	-14	0	2	+	4, 2, 1	0, 2, 1	1, 2, 1	IV, I ₂ , I ₁	2 : 2
A2	0	-1	0	-28	40	0	2	+	8, 1, 2	0, 1, 2	1, 1, 2	IV*, I ₁ , I ₂	2 : 1
B1	0	1	0	-9	0	1	2	+	4, 4, 1	0, 4, 1	3, 4, 1	IV, I ₄ , I ₁	2 : 2
B2	0	1	0	36	36	1	2	-	8, 2, 2	0, 2, 2	3, 2, 2	IV*, I ₂ , I ₂	2 : 1

446 **446**
 $N = 446 = 2 \cdot 223$ (4 isogeny classes)

A1	1	1	0	-30	52	1	1	+	6, 1	6, 1	2, 1	I ₆ , I ₁	
B1	1	1	1	-39	-35	1	1	+	14, 1	14, 1	14, 1	I ₁₄ , I ₁	
C1	1	1	1	2	-5	0	2	-	6, 1	6, 1	6, 1	I ₆ , I ₁	2 : 2
C2	1	1	1	-38	-101	0	2	+	3, 2	3, 2	3, 2	I ₃ , I ₂	2 : 1
D1	1	-1	0	-4	4	2	1	+	2, 1	2, 1	2, 1	I ₂ , I ₁	

448 **448**
 $N = 448 = 2^6 \cdot 7$ (8 isogeny classes)

A1	0	0	0	4	16	1	2	-	14, 1	0, 1	4, 1	I ₄ *, I ₁	2 : 2
A2	0	0	0	-76	240	1	4	+	16, 2	0, 2	4, 2	I ₆ *, I ₂	2 : 1, 3, 4
A3	0	0	0	-236	-1104	1	2	+	17, 4	0, 4	4, 2	I ₇ *, I ₄	2 : 2
A4	0	0	0	-1196	15920	1	4	+	17, 1	0, 1	4, 1	I ₇ *, I ₁	2 : 2
B1	0	0	0	4	-16	1	2	-	14, 1	0, 1	4, 1	I ₄ *, I ₁	2 : 2
B2	0	0	0	-76	-240	1	4	+	16, 2	0, 2	4, 2	I ₆ *, I ₂	2 : 1, 3, 4
B3	0	0	0	-1196	-15920	1	2	+	17, 1	0, 1	2, 1	I ₇ *, I ₁	2 : 2
B4	0	0	0	-236	1104	1	4	+	17, 4	0, 4	4, 4	I ₇ *, I ₄	2 : 2
C1	0	-1	0	-33	161	0	2	-	20, 1	2, 1	4, 1	I ₁₀ *, I ₁	2 : 2; 3 : 3
C2	0	-1	0	-673	6945	0	2	+	19, 2	1, 2	2, 2	I ₉ *, I ₂	2 : 1; 3 : 4
C3	0	-1	0	287	-3231	0	2	-	24, 3	6, 3	4, 3	I ₁₄ *, I ₃	2 : 4; 3 : 1, 5
C4	0	-1	0	-2273	-33439	0	2	+	21, 6	3, 6	2, 6	I ₁₁ *, I ₆	2 : 3; 3 : 2, 6
C5	0	-1	0	-10913	-436447	0	2	-	36, 1	18, 1	4, 1	I ₂₆ *, I ₁	2 : 6; 3 : 3
C6	0	-1	0	-174753	-28059871	0	2	+	27, 2	9, 2	2, 2	I ₁₇ *, I ₂	2 : 5; 3 : 4
D1	0	-1	0	7	-7	0	2	-	12, 1	0, 1	4, 1	I ₂ *, I ₁	2 : 2
D2	0	-1	0	-33	-31	0	2	+	15, 2	0, 2	2, 2	I ₅ *, I ₂	2 : 1
E1	0	-1	0	-1	33	0	2	-	16, 1	0, 1	4, 1	I ₆ *, I ₁	2 : 2
E2	0	-1	0	-161	833	0	2	+	17, 2	0, 2	2, 2	I ₇ *, I ₂	2 : 1
F1	0	1	0	-33	-161	0	2	-	20, 1	2, 1	4, 1	I ₁₀ *, I ₁	2 : 2; 3 : 3
F2	0	1	0	-673	-6945	0	2	+	19, 2	1, 2	2, 2	I ₉ *, I ₂	2 : 1; 3 : 4
F3	0	1	0	287	3231	0	2	-	24, 3	6, 3	4, 1	I ₁₄ *, I ₃	2 : 4; 3 : 1, 5
F4	0	1	0	-2273	33439	0	2	+	21, 6	3, 6	2, 2	I ₁₁ *, I ₆	2 : 3; 3 : 2, 6
F5	0	1	0	-10913	436447	0	2	-	36, 1	18, 1	4, 1	I ₂₆ *, I ₁	2 : 6; 3 : 3
F6	0	1	0	-174753	28059871	0	2	+	27, 2	9, 2	2, 2	I ₁₇ *, I ₂	2 : 5; 3 : 4
G1	0	1	0	7	7	1	2	-	12, 1	0, 1	4, 1	I ₂ *, I ₁	2 : 2
G2	0	1	0	-33	31	1	2	+	15, 2	0, 2	4, 2	I ₅ *, I ₂	2 : 1
H1	0	1	0	-1	-33	0	2	-	16, 1	0, 1	4, 1	I ₆ *, I ₁	2 : 2

TABLE 1: ELLIPTIC CURVES 450A–455B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
450	$N = 450 = 2 \cdot 3^2 \cdot 5^2$ (7 isogeny classes)												450
A1	1	-1	1	-680	9447	0	2	-	2, 7, 9	2, 1, 0	2, 2, 2	I_2, I_1^*, III^*	2 : 2; 5 : 3
A2	1	-1	1	-11930	504447	0	2	+	1, 8, 9	1, 2, 0	1, 4, 2	I_1, I_2^*, III^*	2 : 1; 5 : 4
A3	1	-1	1	-6305	-924303	0	2	-	10, 11, 9	10, 5, 0	10, 2, 2	I_{10}, I_5^*, III^*	2 : 4; 5 : 1
A4	1	-1	1	-186305	-30804303	0	2	+	5, 16, 9	5, 10, 0	5, 4, 2	I_5, I_{10}^*, III^*	2 : 3; 5 : 2
B1	1	-1	1	-5	47	0	1	-	1, 6, 4	1, 0, 0	1, 1, 1	I_1, I_0^*, IV	3 : 2; 5 : 3
B2	1	-1	1	-1130	14897	0	3	-	3, 6, 4	3, 0, 0	3, 1, 3	I_3, I_0^*, IV	3 : 1; 5 : 4
B3	1	-1	1	-680	-8053	0	1	-	5, 6, 8	5, 0, 0	5, 1, 1	I_5, I_0^*, IV^*	3 : 4; 5 : 1
B4	1	-1	1	4945	59447	0	3	-	15, 6, 8	15, 0, 0	15, 1, 3	I_{15}, I_0^*, IV^*	3 : 3; 5 : 2
C1	1	-1	0	-27	81	1	2	-	2, 7, 3	2, 1, 0	2, 4, 2	I_2, I_1^*, III	2 : 2; 5 : 3
C2	1	-1	0	-477	4131	1	2	+	1, 8, 3	1, 2, 0	1, 4, 2	I_1, I_2^*, III	2 : 1; 5 : 4
C3	1	-1	0	-252	-7344	1	2	-	10, 11, 3	10, 5, 0	2, 4, 2	I_{10}, I_5^*, III	2 : 4; 5 : 1
C4	1	-1	0	-7452	-244944	1	2	+	5, 16, 3	5, 10, 0	1, 4, 2	I_5, I_{10}^*, III	2 : 3; 5 : 2
D1	1	-1	0	-27	-59	0	1	-	5, 6, 2	5, 0, 0	1, 1, 1	I_5, I_0^*, II	3 : 2; 5 : 3
D2	1	-1	0	198	436	0	1	-	15, 6, 2	15, 0, 0	1, 1, 1	I_{15}, I_0^*, II	3 : 1; 5 : 4
D3	1	-1	0	-117	5791	0	1	-	1, 6, 10	1, 0, 0	1, 1, 1	I_1, I_0^*, II^*	3 : 4; 5 : 1
D4	1	-1	0	-28242	1833916	0	1	-	3, 6, 10	3, 0, 0	1, 1, 1	I_3, I_0^*, II^*	3 : 3; 5 : 2
E1	1	-1	1	145	147	0	2	-	2, 3, 9	2, 0, 3	2, 2, 2	I_2, III, I_3^*	2 : 2; 3 : 3
E2	1	-1	1	-605	1647	0	2	+	1, 3, 12	1, 0, 6	1, 2, 4	I_1, III, I_6^*	2 : 1; 3 : 4
E3	1	-1	1	-1730	-31103	0	2	-	6, 9, 7	6, 0, 1	6, 2, 2	I_6, III^*, I_1^*	2 : 4; 3 : 1
E4	1	-1	1	-28730	-1867103	0	2	+	3, 9, 8	3, 0, 2	3, 2, 4	I_3, III^*, I_2^*	2 : 3; 3 : 2
F1	1	-1	0	-192	1216	1	2	-	6, 3, 7	6, 0, 1	2, 2, 4	I_6, III, I_1^*	2 : 2; 3 : 3
F2	1	-1	0	-3192	70216	1	2	+	3, 3, 8	3, 0, 2	1, 2, 4	I_3, III, I_2^*	2 : 1; 3 : 4
F3	1	-1	0	1308	-5284	1	2	-	2, 9, 9	2, 0, 3	2, 2, 4	I_2, III^*, I_3^*	2 : 4; 3 : 1
F4	1	-1	0	-5442	-39034	1	2	+	1, 9, 12	1, 0, 6	1, 2, 4	I_1, III^*, I_6^*	2 : 3; 3 : 2
G1	1	-1	0	333	-7259	0	2	-	4, 9, 7	4, 3, 1	2, 2, 2	I_4, I_3^*, I_1^*	2 : 2; 3 : 3
G2	1	-1	0	-4167	-92759	0	4	+	2, 12, 8	2, 6, 2	2, 4, 4	I_2, I_6^*, I_2^*	2 : 1, 4, 5; 3 : 6
G3	1	-1	0	-3042	212116	0	2	-	12, 7, 9	12, 1, 3	2, 2, 2	I_{12}, I_1^*, I_3^*	2 : 6; 3 : 1
G4	1	-1	0	-64917	-6350009	0	2	+	1, 9, 10	1, 3, 4	1, 4, 4	I_1, I_3^*, I_4^*	2 : 2; 3 : 7
G5	1	-1	0	-15417	638491	0	2	+	1, 18, 7	1, 12, 1	1, 4, 2	I_1, I_{12}^*, I_1^*	2 : 2; 3 : 8
G6	1	-1	0	-75042	7916116	0	4	+	6, 8, 12	6, 2, 6	2, 4, 4	I_6, I_2^*, I_6^*	2 : 3, 7, 8; 3 : 2
G7	1	-1	0	-102042	1733116	0	2	+	3, 7, 18	3, 1, 12	1, 4, 4	I_3, I_1^*, I_{12}^*	2 : 6; 3 : 4
G8	1	-1	0	-120042	506291116	0	2	+	3, 10, 9	3, 4, 3	1, 4, 2	I_3, I_4^*, I_3^*	2 : 6; 3 : 5
451	$N = 451 = 11 \cdot 41$ (1 isogeny class)												451
A1	0	1	1	3	7	1	1	-	1, 2	1, 2	1, 2	I_1, I_2	
455	$N = 455 = 5 \cdot 7 \cdot 13$ (2 isogeny classes)												455
A1	1	-1	0	-50	111	1	2	+	3, 4, 1	3, 4, 1	1, 2, 1	I_3, I_4, I_1	2 : 2
A2	1	-1	0	-295	-1800	1	4	+	6, 2, 2	6, 2, 2	2, 2, 2	I_6, I_2, I_2	2 : 1, 3, 4
A3	1	-1	0	-4670	-121675	1	2	+	3, 1, 4	3, 1, 4	1, 1, 2	I_3, I_1, I_4	2 : 2
A4	1	-1	0	160	-7169	1	2	-	12, 1, 1	12, 1, 1	2, 1, 1	I_{12}, I_1, I_1	2 : 2
B1	1	-1	1	-67	226	1	4	+	1, 2, 1	1, 2, 1	1, 2, 1	I_1, I_2, I_1	2 : 2
B2	1	-1	1	-72	194	1	4	+	2, 4, 2	2, 4, 2	2, 2, 2	I_2, I_4, I_2	2 : 1, 3, 4
B3	1	-1	1	-397	-2796	1	2	+	1, 8, 1	1, 8, 1	1, 2, 1	I_1, I_8, I_1	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
456	$N = 456 = 2^3 \cdot 3 \cdot 19$ (4 isogeny classes)												456
A1	0	-1	0	-16	28	0	2	+	10, 1, 1	0, 1, 1	2, 1, 1	III*, I ₁ , I ₁	2 : 2
A2	0	-1	0	24	108	0	2	-	11, 2, 2	0, 2, 2	1, 2, 2	II*, I ₂ , I ₂	2 : 1
B1	0	1	0	-172	-928	0	2	+	8, 3, 1	0, 3, 1	2, 3, 1	I ₁ *, I ₃ , I ₁	2 : 2
B2	0	1	0	-192	-720	0	4	+	10, 6, 2	0, 6, 2	2, 6, 2	III*, I ₆ , I ₂	2 : 1, 3, 4
B3	0	1	0	-1272	16560	0	2	+	11, 3, 4	0, 3, 4	1, 3, 2	II*, I ₃ , I ₄	2 : 2
B4	0	1	0	568	-4368	0	2	-	11, 12, 1	0, 12, 1	1, 12, 1	II*, I ₁₂ , I ₁	2 : 2
C1	0	1	0	-57	171	1	1	-	8, 6, 1	0, 6, 1	4, 6, 1	I ₁ *, I ₆ , I ₁	
D1	0	-1	0	55	93	1	1	-	8, 2, 3	0, 2, 3	2, 2, 3	I ₁ *, I ₂ , I ₃	
458	$N = 458 = 2 \cdot 229$ (2 isogeny classes)												458
A1	1	-1	0	-19	37	1	1	+	4, 1	4, 1	2, 1	I ₄ , I ₁	
B1	1	1	1	-16	-15	1	1	+	10, 1	10, 1	10, 1	I ₁₀ , I ₁	
459	$N = 459 = 3^3 \cdot 17$ (8 isogeny classes)												459
A1	1	-1	0	0	-1	1	1	-	3, 1	0, 1	1, 1	II, I ₁	
B1	0	0	1	3	-4	1	1	-	3, 2	0, 2	1, 2	II, I ₂	
C1	0	0	1	-6	-6	0	1	-	3, 1	0, 1	1, 1	II, I ₁	3 : 2
C2	0	0	1	24	-27	0	3	-	5, 3	0, 3	3, 3	IV, I ₃	3 : 1
D1	0	0	1	-351	2531	0	1	-	9, 1	0, 1	1, 1	IV*, I ₁	
E1	0	0	1	27	101	0	1	-	9, 2	0, 2	1, 2	IV*, I ₂	
F1	0	0	1	-54	155	0	3	-	9, 1	0, 1	3, 1	IV*, I ₁	3 : 2
F2	0	0	1	216	722	0	1	-	11, 3	0, 3	1, 1	II*, I ₃	3 : 1
G1	0	0	1	-39	-94	0	1	-	3, 1	0, 1	1, 1	II, I ₁	
H1	1	-1	1	-2	28	1	1	-	9, 1	0, 1	3, 1	IV*, I ₁	
460	$N = 460 = 2^2 \cdot 5 \cdot 23$ (4 isogeny classes)												460
A1	0	0	0	-8	-12	0	1	-	8, 1, 1	0, 1, 1	1, 1, 1	IV*, I ₁ , I ₁	
B1	0	0	0	-73	2453	0	1	-	4, 2, 5	0, 2, 5	1, 2, 1	IV, I ₂ , I ₅	
C1	0	1	0	-46	529	1	3	-	4, 4, 3	0, 4, 3	3, 2, 3	IV, I ₄ , I ₃	3 : 2
C2	0	1	0	414	-13915	1	1	-	4, 12, 1	0, 12, 1	1, 2, 1	IV, I ₁₂ , I ₁	3 : 1
D1	0	-1	0	-10	17	1	1	-	4, 2, 1	0, 2, 1	3, 2, 1	IV, I ₂ , I ₁	
462	$N = 462 = 2 \cdot 3 \cdot 7 \cdot 11$ (7 isogeny classes)												462
A1	1	1	0	5	-23	1	2	-	2, 4, 1, 2	2, 4, 1, 2	2, 2, 1, 2	I ₂ , I ₄ , I ₁ , I ₂	2 : 2
A2	1	1	0	-105	-441	1	2	+	1, 8, 2, 1	1, 8, 2, 1	1, 2, 2, 1	I ₁ , I ₈ , I ₂ , I ₁	2 : 1
B1	1	1	0	-644	-2352	0	2	+	20, 3, 2, 1	20, 3, 2, 1	2, 1, 2, 1	I ₂₀ , I ₃ , I ₂ , I ₁	2 : 2
B2	1	1	0	-5764	164560	0	4	+	10, 6, 4, 2	10, 6, 4, 2	2, 2, 2, 2	I ₁₀ , I ₆ , I ₄ , I ₂	2 : 1, 3, 4
B3	1	1	0	-92004	10703088	0	2	+	5, 12, 2, 1	5, 12, 2, 1	1, 2, 2, 1	I ₅ , I ₁₂ , I ₂ , I ₁	2 : 2
B4	1	1	0	-1444	410800	0	2	-	5, 3, 8, 4	5, 3, 8, 4	1, 1, 2, 4	I ₅ , I ₃ , I ₈ , I ₄	2 : 2
C1	1	1	0	4	0	1	2	-	4, 1, 1, 1	4, 1, 1, 1	2, 1, 1, 1	I ₄ , I ₁ , I ₁ , I ₁	2 : 2
C2	1	1	0	-16	-20	1	4	+	2, 2, 2, 2	2, 2, 2, 2	2, 2, 2, 2	I ₂ , I ₂ , I ₂ , I ₂	2 : 1, 3, 4
C3	1	1	0	-226	-1406	1	2	+	1, 1, 1, 4	1, 1, 1, 4	1, 1, 1, 4	I ₁ , I ₁ , I ₁ , I ₄	2 : 2
C4	1	1	0	-126	486	1	2	+	1, 4, 4, 1	1, 4, 4, 1	1, 2, 4, 1	I ₁ , I ₄ , I ₄ , I ₁	2 : 2
D1	1	0	1	-1676	5058506	0	2	-	26, 4, 5, 2	26, 4, 5, 2	2, 4, 1, 2	I ₂₆ , I ₄ , I ₅ , I ₂	2 : 2

TABLE 1: ELLIPTIC CURVES 462E–468B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
462	$N = 462 = 2 \cdot 3 \cdot 7 \cdot 11$ (continued)												462
E1	1	1	1	-405	4731	1	2	-	14, 2, 3, 2	14, 2, 3, 2	14, 2, 3, 2	I_{14}, I_2, I_3, I_2	2 : 2
E2	1	1	1	-7445	244091	1	2	+	7, 4, 6, 1	7, 4, 6, 1	7, 2, 6, 1	I_7, I_4, I_6, I_1	2 : 1
F1	1	0	0	-97	1337	0	4	-	4, 2, 3, 4	4, 2, 3, 4	4, 2, 1, 4	I_4, I_2, I_3, I_4	2 : 2
F2	1	0	0	-2517	48285	0	4	+	2, 4, 6, 2	2, 4, 6, 2	2, 4, 2, 2	I_2, I_4, I_6, I_2	2 : 1, 3, 4
F3	1	0	0	-3507	6507	0	2	+	1, 2, 12, 1	1, 2, 12, 1	1, 2, 2, 1	I_1, I_2, I_{12}, I_1	2 : 2
F4	1	0	0	-40247	3104415	0	2	+	1, 8, 3, 1	1, 8, 3, 1	1, 8, 1, 1	I_1, I_8, I_3, I_1	2 : 2
G1	1	0	0	77	161	0	6	-	6, 6, 1, 2	6, 6, 1, 2	6, 6, 1, 2	I_6, I_6, I_1, I_2	2 : 2; 3 : 3
G2	1	0	0	-363	1305	0	6	+	3, 12, 2, 1	3, 12, 2, 1	3, 12, 2, 1	I_3, I_{12}, I_2, I_1	2 : 1; 3 : 4
G3	1	0	0	-823	-11611	0	2	-	2, 2, 3, 6	2, 2, 3, 6	2, 2, 3, 2	I_2, I_2, I_3, I_6	2 : 4; 3 : 1
G4	1	0	0	-14133	-647829	0	2	+	1, 4, 6, 3	1, 4, 6, 3	1, 4, 6, 1	I_1, I_4, I_6, I_3	2 : 3; 3 : 2
464	$N = 464 = 2^4 \cdot 29$ (7 isogeny classes)												464
A1	0	1	0	8	4	1	1	-	10, 1	0, 1	2, 1	I_2^*, I_1	
B1	0	-1	0	-80	304	1	1	-	10, 1	0, 1	2, 1	I_2^*, I_1	
C1	0	1	0	80	-428	0	1	-	22, 1	10, 1	2, 1	I_{14}^*, I_1	5 : 2
C2	0	1	0	-7280	238292	0	1	-	14, 5	2, 5	2, 1	I_6^*, I_5	5 : 1
D1	0	-1	0	-4	-4	0	1	-	8, 1	0, 1	1, 1	I_0^*, I_1	3 : 2
D2	0	-1	0	36	76	0	1	-	8, 3	0, 3	1, 1	I_0^*, I_3	3 : 1
E1	0	1	0	-4	-24	0	2	-	8, 2	0, 2	1, 2	I_0^*, I_2	2 : 2
E2	0	1	0	-9	-14	0	2	+	4, 1	0, 1	1, 1	II, I_1	2 : 1
F1	0	0	0	-4831	129242	0	1	-	8, 1	0, 1	1, 1	I_0^*, I_1	
G1	0	0	0	-19	-46	0	1	-	14, 1	2, 1	2, 1	I_6^*, I_1	
465	$N = 465 = 3 \cdot 5 \cdot 31$ (2 isogeny classes)												465
A1	1	1	0	-7	16	1	2	-	3, 1, 2	3, 1, 2	1, 1, 2	I_3, I_1, I_2	2 : 2
A2	1	1	0	-162	729	1	2	+	6, 2, 1	6, 2, 1	2, 2, 1	I_6, I_2, I_1	2 : 1
B1	1	0	0	-10	-13	1	2	+	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	2 : 2
B2	1	0	0	-15	0	1	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1, 3, 4
B3	1	0	0	-170	837	1	4	+	4, 4, 1	4, 4, 1	4, 4, 1	I_4, I_4, I_1	2 : 2
B4	1	0	0	60	15	1	2	-	1, 1, 4	1, 1, 4	1, 1, 2	I_1, I_1, I_4	2 : 2
466	$N = 466 = 2 \cdot 233$ (2 isogeny classes)												466
A1	1	1	0	-5	-7	0	2	+	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
A2	1	1	0	-15	11	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 1
B1	1	0	0	-23	41	0	3	-	6, 1	6, 1	6, 1	I_6, I_1	3 : 2
B2	1	0	0	77	229	0	1	-	2, 3	2, 3	2, 1	I_2, I_3	3 : 1
467	$N = 467 = 467$ (1 isogeny class)												467
A1	0	0	1	-4	3	1	1	-	1	1	1	I_1	
468	$N = 468 = 2^2 \cdot 3^2 \cdot 13$ (5 isogeny classes)												468
A1	0	0	0	-168	-855	0	2	-	4, 3, 4	0, 0, 4	3, 2, 2	IV, III, I_4	2 : 2
A2	0	0	0	-2703	-54090	0	2	+	8, 3, 2	0, 0, 2	3, 2, 2	IV^*, III, I_2	2 : 1
B1	0	0	0	-1512	23085	0	2	-	4, 9, 4	0, 0, 4	1, 2, 2	IV, III^*, I_4	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
468	$N = 468 = 2^2 \cdot 3^2 \cdot 13$ (continued)												468
C1	0	0	0	-36	81	1	2	+	4, 6, 1	0, 0, 1	3, 4, 1	IV, I ₀ [*] , I ₁	2 : 2
C2	0	0	0	9	270	1	2	-	8, 6, 2	0, 0, 2	3, 2, 2	IV [*] , I ₀ [*] , I ₂	2 : 1
D1	0	0	0	-120	-11	0	2	+	4, 12, 1	0, 6, 1	1, 4, 1	IV, I ₆ [*] , I ₁	2 : 2; 3 : 3
D2	0	0	0	-1335	-18722	0	2	+	8, 9, 2	0, 3, 2	1, 4, 2	IV [*] , I ₃ [*] , I ₂	2 : 1; 3 : 4
D3	0	0	0	-6600	206377	0	6	+	4, 8, 3	0, 2, 3	3, 4, 3	IV, I ₂ [*] , I ₃	2 : 4; 3 : 1
D4	0	0	0	-6735	197494	0	6	+	8, 7, 6	0, 1, 6	3, 4, 6	IV [*] , I ₁ [*] , I ₆	2 : 3; 3 : 2
E1	0	0	0	-48	-115	0	2	+	4, 8, 1	0, 2, 1	1, 4, 1	IV, I ₂ [*] , I ₁	2 : 2
E2	0	0	0	-183	830	0	2	+	8, 7, 2	0, 1, 2	1, 2, 2	IV [*] , I ₁ [*] , I ₂	2 : 1
469	$N = 469 = 7 \cdot 67$ (2 isogeny classes)												469
A1	1	0	1	-80	-275	1	1	+	5, 1	5, 1	1, 1	I ₅ , I ₁	
B1	1	-1	1	-12	18	1	1	+	1, 1	1, 1	1, 1	I ₁ , I ₁	
470	$N = 470 = 2 \cdot 5 \cdot 47$ (6 isogeny classes)												470
A1	1	0	1	-44	106	1	1	+	8, 1, 1	8, 1, 1	2, 1, 1	I ₈ , I ₁ , I ₁	
B1	1	0	1	-5773	168328	0	3	+	8, 3, 1	8, 3, 1	2, 3, 1	I ₈ , I ₃ , I ₁	3 : 2
B2	1	0	1	-6348	132618	0	1	+	24, 1, 3	24, 1, 3	2, 1, 1	I ₂₄ , I ₁ , I ₃	3 : 1
C1	1	1	0	-97	281	1	1	+	2, 7, 1	2, 7, 1	2, 7, 1	I ₂ , I ₇ , I ₁	
D1	1	0	0	-36	80	0	3	+	6, 1, 1	6, 1, 1	6, 1, 1	I ₆ , I ₁ , I ₁	3 : 2
D2	1	0	0	-176	-844	0	1	+	2, 3, 3	2, 3, 3	2, 1, 1	I ₂ , I ₃ , I ₃	3 : 1
E1	1	1	1	-11	9	1	1	+	4, 1, 1	4, 1, 1	4, 1, 1	I ₄ , I ₁ , I ₁	
F1	1	-1	1	-117	141	1	1	+	14, 3, 1	14, 3, 1	14, 3, 1	I ₁₄ , I ₃ , I ₁	
471	$N = 471 = 3 \cdot 157$ (1 isogeny class)												471
A1	1	1	1	1	2	1	1	-	2, 1	2, 1	2, 1	I ₂ , I ₁	
472	$N = 472 = 2^3 \cdot 59$ (5 isogeny classes)												472
A1	0	0	0	2	1	1	1	-	4, 1	0, 1	2, 1	III, I ₁	
B1	0	-1	0	-276	-1676	0	1	-	8, 1	0, 1	2, 1	I ₁ [*] , I ₁	
C1	0	-1	0	8	12	0	1	-	11, 1	0, 1	1, 1	II [*] , I ₁	
D1	0	0	0	-19	-34	0	1	-	10, 1	0, 1	2, 1	III [*] , I ₁	
E1	0	-1	0	4	4	1	1	-	8, 1	0, 1	4, 1	I ₁ [*] , I ₁	
473	$N = 473 = 11 \cdot 43$ (1 isogeny class)												473
A1	0	1	1	-1006	11952	1	1	-	3, 2	3, 2	1, 2	I ₃ , I ₂	
474	$N = 474 = 2 \cdot 3 \cdot 79$ (2 isogeny classes)												474
A1	1	1	0	81	-27	1	1	-	14, 3, 1	14, 3, 1	2, 1, 1	I ₁₄ , I ₃ , I ₁	
B1	1	0	1	-7	14	1	1	-	2, 5, 1	2, 5, 1	2, 5, 1	I ₂ , I ₅ , I ₁	
475	$N = 475 = 5^2 \cdot 19$ (3 isogeny classes)												475
A1	0	-1	1	17	-7	0	1	-	6, 1	0, 1	1, 1	I ₀ [*] , I ₁	3 : 2
A2	0	-1	1	-233	-1382	0	1	-	6, 3	0, 3	1, 3	I ₁ [*] , I ₂	3 : 1, 3

TABLE 1: ELLIPTIC CURVES 475B–481A

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	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
475	$N = 475 = 5^2 \cdot 19$ (continued)												475
B1	1	-1	0	8	291	1	2	-	9, 1	0, 1	2, 1	III*, I ₁	2 : 2
B2	1	-1	0	-617	5916	1	2	+	9, 2	0, 2	2, 2	III*, I ₂	2 : 1
C1	1	-1	1	0	2	1	2	-	3, 1	0, 1	2, 1	III, I ₁	2 : 2
C2	1	-1	1	-25	52	1	2	+	3, 2	0, 2	2, 2	III, I ₂	2 : 1
477	$N = 477 = 3^2 \cdot 53$ (1 isogeny class)												477
A1	1	-1	0	3	-10	1	1	-	6, 1	0, 1	1, 1	I ₀ *, I ₁	
480	$N = 480 = 2^5 \cdot 3 \cdot 5$ (8 isogeny classes)												480
A1	0	-1	0	-6	0	1	4	+	6, 2, 2	0, 2, 2	2, 2, 2	III, I ₂ , I ₂	2 : 2, 3, 4
A2	0	-1	0	-81	-255	1	2	+	12, 1, 1	0, 1, 1	2, 1, 1	I ₃ *, I ₁ , I ₁	2 : 1
A3	0	-1	0	-56	180	1	2	+	9, 4, 1	0, 4, 1	2, 2, 1	I ₀ *, I ₄ , I ₁	2 : 1
A4	0	-1	0	24	-24	1	2	-	9, 1, 4	0, 1, 4	1, 1, 2	I ₀ *, I ₁ , I ₄	2 : 1
B1	0	-1	0	-10	-8	0	4	+	6, 2, 2	0, 2, 2	2, 2, 2	III, I ₂ , I ₂	2 : 2, 3, 4
B2	0	-1	0	-160	-728	0	2	+	9, 1, 1	0, 1, 1	1, 1, 1	I ₀ *, I ₁ , I ₁	2 : 1
B3	0	-1	0	-40	100	0	4	+	9, 1, 4	0, 1, 4	2, 1, 4	I ₀ *, I ₁ , I ₄	2 : 1
B4	0	-1	0	15	-63	0	2	-	12, 4, 1	0, 4, 1	2, 2, 1	I ₃ *, I ₄ , I ₁	2 : 1
C1	0	1	0	-6	0	0	4	+	6, 2, 2	0, 2, 2	2, 2, 2	III, I ₂ , I ₂	2 : 2, 3, 4
C2	0	1	0	-56	-180	0	2	+	9, 4, 1	0, 4, 1	1, 4, 1	I ₀ *, I ₄ , I ₁	2 : 1
C3	0	1	0	-81	255	0	2	+	12, 1, 1	0, 1, 1	2, 1, 1	I ₃ *, I ₁ , I ₁	2 : 1
C4	0	1	0	24	24	0	2	-	9, 1, 4	0, 1, 4	2, 1, 2	I ₀ *, I ₁ , I ₄	2 : 1
D1	0	1	0	-226	-1360	0	4	+	6, 6, 4	0, 6, 4	2, 6, 2	III, I ₆ , I ₄	2 : 2, 3, 4
D2	0	1	0	-3601	-84385	0	2	+	12, 3, 2	0, 3, 2	2, 3, 2	I ₃ *, I ₃ , I ₂	2 : 1
D3	0	1	0	-496	2204	0	2	+	9, 3, 8	0, 3, 8	1, 3, 2	I ₀ *, I ₃ , I ₈	2 : 1
D4	0	1	0	24	-3960	0	4	-	9, 12, 2	0, 12, 2	2, 12, 2	I ₀ *, I ₁₂ , I ₂	2 : 1
E1	0	-1	0	-226	1360	0	4	+	6, 6, 4	0, 6, 4	2, 2, 2	III, I ₆ , I ₄	2 : 2, 3, 4
E2	0	-1	0	-496	-2204	0	2	+	9, 3, 8	0, 3, 8	2, 1, 2	I ₀ *, I ₃ , I ₈	2 : 1
E3	0	-1	0	-3601	84385	0	4	+	12, 3, 2	0, 3, 2	4, 1, 2	I ₃ *, I ₃ , I ₂	2 : 1
E4	0	-1	0	24	3960	0	2	-	9, 12, 2	0, 12, 2	1, 2, 2	I ₀ *, I ₁₂ , I ₂	2 : 1
F1	0	-1	0	-30	72	1	4	+	6, 4, 2	0, 4, 2	2, 2, 2	III, I ₄ , I ₂	2 : 2, 3, 4
F2	0	-1	0	-80	-168	1	2	+	9, 8, 1	0, 8, 1	1, 2, 1	I ₀ *, I ₈ , I ₁	2 : 1
F3	0	-1	0	-480	4212	1	4	+	9, 2, 1	0, 2, 1	2, 2, 1	I ₀ *, I ₂ , I ₁	2 : 1
F4	0	-1	0	15	225	1	4	-	12, 2, 4	0, 2, 4	4, 2, 4	I ₃ *, I ₂ , I ₄	2 : 1
G1	0	1	0	-10	8	0	4	+	6, 2, 2	0, 2, 2	2, 2, 2	III, I ₂ , I ₂	2 : 2, 3, 4
G2	0	1	0	-40	-100	0	2	+	9, 1, 4	0, 1, 4	1, 1, 4	I ₀ *, I ₁ , I ₄	2 : 1
G3	0	1	0	-160	728	0	2	+	9, 1, 1	0, 1, 1	2, 1, 1	I ₀ *, I ₁ , I ₁	2 : 1
G4	0	1	0	15	63	0	4	-	12, 4, 1	0, 4, 1	4, 4, 1	I ₃ *, I ₄ , I ₁	2 : 1
H1	0	1	0	-30	-72	0	4	+	6, 4, 2	0, 4, 2	2, 4, 2	III, I ₄ , I ₂	2 : 2, 3, 4
H2	0	1	0	-480	-4212	0	2	+	9, 2, 1	0, 2, 1	1, 2, 1	I ₀ *, I ₂ , I ₁	2 : 1
H3	0	1	0	-80	168	0	4	+	9, 8, 1	0, 8, 1	2, 8, 1	I ₀ *, I ₈ , I ₁	2 : 1
H4	0	1	0	15	-225	0	4	-	12, 2, 4	0, 2, 4	4, 2, 4	I ₃ *, I ₂ , I ₄	2 : 1
481	$N = 481 = 13 \cdot 37$ (1 isogeny class)												481
A1	1	-1	0	-1693	27240	1	2	+	3, 1	3, 1	1, 1	I ₂ , I ₁	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
482	$N = 482 = 2 \cdot 241$ (1 isogeny class)												482
A1	1	0	1	-44	-150	1	1	—	14, 1	14, 1	2, 1	I_{14}, I_1	
483	$N = 483 = 3 \cdot 7 \cdot 23$ (2 isogeny classes)												483
A1	0	1	1	-96	-457	0	1	—	5, 1, 3	5, 1, 3	5, 1, 1	I_5, I_1, I_3	
B1	0	1	1	2	1	0	1	—	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	
484	$N = 484 = 2^2 \cdot 11^2$ (1 isogeny class)												484
A1	0	1	0	323	2671	1	1	—	8, 7	0, 1	1, 4	IV^*, I_1^*	3 : 2
A2	0	1	0	-9357	347279	1	1	—	8, 9	0, 3	3, 4	IV^*, I_3^*	3 : 1
485	$N = 485 = 5 \cdot 97$ (2 isogeny classes)												485
A1	0	1	1	-121	-64	0	3	+	3, 3	3, 3	1, 3	I_3, I_3	3 : 2, 3
A2	0	1	1	-6911	-223455	0	1	+	9, 1	9, 1	1, 1	I_9, I_1	3 : 1
A3	0	1	1	-81	255	0	3	+	1, 1	1, 1	1, 1	I_1, I_1	3 : 1
B1	0	0	1	-2	0	1	1	+	1, 1	1, 1	1, 1	I_1, I_1	
486	$N = 486 = 2 \cdot 3^5$ (6 isogeny classes)												486
A1	1	-1	0	3	5	1	1	—	6, 5	6, 0	2, 1	I_6, II	3 : 2
A2	1	-1	0	-177	953	1	3	—	2, 11	2, 0	2, 3	I_2, IV^*	3 : 1
B1	1	-1	0	-6	-4	1	1	+	3, 5	3, 0	1, 1	I_3, II	3 : 2
B2	1	-1	0	-96	386	1	3	+	1, 11	1, 0	1, 3	I_1, IV^*	3 : 1
C1	1	-1	0	-123	557	0	3	+	3, 7	3, 0	1, 3	I_3, IV	3 : 2
C2	1	-1	0	-258	-748	0	1	+	9, 13	9, 0	1, 1	I_9, II^*	3 : 1
D1	1	-1	1	-20	-29	0	1	—	2, 5	2, 0	2, 1	I_2, II	3 : 2
D2	1	-1	1	25	-161	0	3	—	6, 11	6, 0	6, 3	I_6, IV^*	3 : 1
E1	1	-1	1	-11	-11	0	1	+	1, 5	1, 0	1, 1	I_1, II	3 : 2
E2	1	-1	1	-56	163	0	3	+	3, 11	3, 0	3, 3	I_3, IV^*	3 : 1
F1	1	-1	1	-29	37	1	3	+	9, 7	9, 0	9, 3	I_9, IV	3 : 2
F2	1	-1	1	-1109	-13931	1	1	+	3, 13	3, 0	3, 1	I_3, II^*	3 : 1
490	$N = 490 = 2 \cdot 5 \cdot 7^2$ (11 isogeny classes)												490
A1	1	0	1	121	46	1	3	—	2, 1, 8	2, 1, 0	2, 1, 3	I_2, I_1, IV^*	3 : 2
A2	1	0	1	-1594	-26708	1	1	—	6, 3, 8	6, 3, 0	2, 1, 3	I_6, I_3, IV^*	3 : 1
B1	1	1	0	17	-27	0	1	—	7, 3, 2	7, 3, 0	1, 1, 1	I_7, I_3, II	3 : 2
B2	1	1	0	-158	1268	0	1	—	21, 1, 2	21, 1, 0	1, 1, 1	I_{21}, I_1, II	3 : 1
C1	1	0	1	807	11708	0	3	—	7, 3, 8	7, 3, 0	1, 3, 3	I_7, I_3, IV^*	3 : 2
C2	1	0	1	-7768	-458202	0	1	—	21, 1, 8	21, 1, 0	1, 1, 3	I_{21}, I_1, IV^*	3 : 1
D1	1	1	0	3	1	1	1	—	2, 1, 2	2, 1, 0	2, 1, 1	I_2, I_1, II	3 : 2
D2	1	1	0	-32	64	1	1	—	6, 3, 2	6, 3, 0	2, 3, 1	I_6, I_3, II	3 : 1
E1	1	0	0	-1	-15	0	3	—	3, 1, 4	3, 1, 0	3, 1, 3	I_3, I_1, IV	3 : 2
E2	1	0	0	-491	-4229	0	1	—	1, 3, 4	1, 3, 0	1, 1, 3	I_1, I_3, IV	3 : 1
F1	1	-1	1	-6453	201121	0	1	—	2, 1, 8	2, 1, 0	2, 1, 1	I_2, I_1, IV^*	7 : 2
F2	1	-1	1	44997	-1904213	0	1	—	14, 7, 8	14, 7, 0	14, 1, 1	I_{14}, I_7, IV^*	7 : 1
G1	1	0	0	-71	265	1	2	—	10, 2, 3	10, 2, 0	10, 2, 2	I_{10}, I_2, III	2 : 2

TABLE 1: ELLIPTIC CURVES 490H–496E

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
490	$N = 490 = 2 \cdot 5 \cdot 7^2$ (continued)												490
H1	1	-1	1	113	711	0	4	-	4, 2, 7	4, 2, 1	4, 2, 4	I_4, I_2, I_1^*	2 : 2
H2	1	-1	1	-867	8159	0	4	+	2, 4, 8	2, 4, 2	2, 4, 4	I_2, I_4, I_2^*	2 : 1, 3, 4
H3	1	-1	1	-4297	-100229	0	2	+	1, 8, 7	1, 8, 1	1, 8, 2	I_1, I_8, I_1^*	2 : 2
H4	1	-1	1	-13117	581459	0	2	+	1, 2, 10	1, 2, 4	1, 2, 4	I_1, I_2, I_4^*	2 : 2
I1	1	1	1	-50	5095	0	1	-	3, 1, 10	3, 1, 0	3, 1, 1	I_3, I_1, II^*	3 : 2
I2	1	1	1	-24060	1426487	0	1	-	1, 3, 10	1, 3, 0	1, 3, 1	I_1, I_3, II^*	3 : 1
J1	1	1	1	-3480	-94375	0	2	-	10, 2, 9	10, 2, 0	10, 2, 2	I_{10}, I_2, III^*	2 : 2
J2	1	1	1	-58360	-5450663	0	2	+	5, 4, 9	5, 4, 0	5, 4, 2	I_5, I_4, III^*	2 : 1
K1	1	-1	1	-132	-549	0	1	-	2, 1, 2	2, 1, 0	2, 1, 1	I_2, I_1, II	7 : 2
K2	1	-1	1	918	5289	0	7	-	14, 7, 2	14, 7, 0	14, 7, 1	I_{14}, I_7, II	7 : 1
492	$N = 492 = 2^2 \cdot 3 \cdot 41$ (2 isogeny classes)												492
A1	0	-1	0	-13	25	1	1	-	8, 1, 1	0, 1, 1	3, 1, 1	IV^*, I_1, I_1	
B1	0	1	0	11	695	1	1	-	8, 9, 1	0, 9, 1	3, 9, 1	IV^*, I_9, I_1	
493	$N = 493 = 17 \cdot 29$ (2 isogeny classes)												493
A1	1	-1	1	-7741	801682	0	1	-	1, 9	1, 9	1, 1	I_1, I_9	
B1	1	-1	1	-57	222	1	1	-	2, 3	2, 3	2, 3	I_2, I_3	
494	$N = 494 = 2 \cdot 13 \cdot 19$ (4 isogeny classes)												494
A1	1	1	0	13	13	1	1	-	5, 1, 2	5, 1, 2	1, 1, 2	I_5, I_1, I_2	
B1	1	-1	0	4	0	0	2	-	4, 1, 1	4, 1, 1	2, 1, 1	I_4, I_1, I_1	2 : 2
B2	1	-1	0	-16	12	0	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1, 3, 4
B3	1	-1	0	-146	-638	0	2	+	1, 1, 4	1, 1, 4	1, 1, 4	I_1, I_1, I_4	2 : 2
B4	1	-1	0	-206	1190	0	2	+	1, 4, 1	1, 4, 1	1, 2, 1	I_1, I_4, I_1	2 : 2
C1	1	-1	0	-61	-169	0	1	-	1, 1, 2	1, 1, 2	1, 1, 2	I_1, I_1, I_2	
D1	1	1	1	-1001	12375	1	1	-	13, 3, 2	13, 3, 2	13, 3, 2	I_{13}, I_3, I_2	
495	$N = 495 = 3^2 \cdot 5 \cdot 11$ (1 isogeny class)												495
A1	1	-1	1	7	-8	1	2	-	6, 1, 1	0, 1, 1	2, 1, 1	I_0^*, I_1, I_1	2 : 2
A2	1	-1	1	-38	-44	1	4	+	6, 2, 2	0, 2, 2	4, 2, 2	I_0^*, I_2, I_2	2 : 1, 3, 4
A3	1	-1	1	-533	-4598	1	2	+	6, 4, 1	0, 4, 1	2, 2, 1	I_0^*, I_4, I_1	2 : 2
A4	1	-1	1	-263	1666	1	2	+	6, 1, 4	0, 1, 4	2, 1, 4	I_0^*, I_1, I_4	2 : 2
496	$N = 496 = 2^4 \cdot 31$ (6 isogeny classes)												496
A1	0	0	0	1	1	1	1	-	4, 1	0, 1	1, 1	II, I_1	
B1	0	-1	0	0	-1	0	1	-	4, 1	0, 1	1, 1	II, I_1	
C1	0	-1	0	8	0	0	2	-	10, 1	0, 1	4, 1	I_2^*, I_1	2 : 2
C2	0	-1	0	-32	32	0	2	+	11, 2	0, 2	2, 2	I_3^*, I_2	2 : 1
D1	0	-1	0	-2	-1	0	1	-	4, 1	0, 1	1, 1	II, I_1	3 : 2
D2	0	-1	0	18	11	0	1	-	4, 3	0, 3	1, 1	II, I_3	3 : 1

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
496	$N = 496 = 2^4 \cdot 31$ (continued)												496
F1	0	0	0	-11	-70	1	2	-	16, 1	4, 1	4, 1	I_8^*, I_1	2 : 2
F2	0	0	0	-331	-2310	1	4	+	14, 2	2, 2	4, 2	I_6^*, I_2	2 : 1, 3, 4
F3	0	0	0	-5291	-148134	1	2	+	13, 1	1, 1	2, 1	I_5^*, I_1	2 : 2
F4	0	0	0	-491	154	1	4	+	13, 4	1, 4	4, 4	I_5^*, I_4	2 : 2
497	$N = 497 = 7 \cdot 71$ (1 isogeny class)												497
A1	1	1	0	25	-14	1	1	-	5, 1	5, 1	5, 1	I_5, I_1	
498	$N = 498 = 2 \cdot 3 \cdot 83$ (2 isogeny classes)												498
A1	1	0	1	-5	-4	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
A2	1	0	1	5	-16	0	2	-	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1
B1	1	0	1	-9	28	1	1	-	4, 5, 1	4, 5, 1	2, 5, 1	I_4, I_5, I_1	
501	$N = 501 = 3 \cdot 167$ (1 isogeny class)												501
A1	1	1	0	3	0	0	2	-	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
A2	1	1	0	-12	-15	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 1
503	$N = 503 = 503$ (3 isogeny classes)												503
A1	1	0	1	-32	-71	1	1	-	1	1	1	I_1	
B1	1	-1	0	2	-1	0	1	-	1	1	1	I_1	
C1	1	0	0	-210	-1189	0	1	-	1	1	1	I_1	
504	$N = 504 = 2^3 \cdot 3^2 \cdot 7$ (8 isogeny classes)												504
A1	0	0	0	-6	9	1	2	-	4, 3, 2	0, 0, 2	2, 2, 2	III, III, I_2	2 : 2
A2	0	0	0	-111	450	1	2	+	8, 3, 1	0, 0, 1	2, 2, 1	I_1^*, III, I_1	2 : 1
B1	0	0	0	-54	-135	0	2	+	4, 9, 1	0, 0, 1	2, 2, 1	III, III^*, I_1	2 : 2
B2	0	0	0	81	-702	0	2	-	8, 9, 2	0, 0, 2	2, 2, 2	I_1^*, III^*, I_2	2 : 1
C1	0	0	0	9	-54	0	2	-	8, 6, 1	0, 0, 1	2, 2, 1	I_1^*, I_0^*, I_1	2 : 2
C2	0	0	0	-171	-810	0	4	+	10, 6, 2	0, 0, 2	2, 4, 2	III^*, I_0^*, I_2	2 : 1, 3, 4
C3	0	0	0	-2691	-53730	0	2	+	11, 6, 1	0, 0, 1	1, 2, 1	II^*, I_0^*, I_1	2 : 2
C4	0	0	0	-531	3726	0	2	+	11, 6, 4	0, 0, 4	1, 2, 2	II^*, I_0^*, I_4	2 : 2
D1	0	0	0	-54	-243	0	2	-	4, 9, 2	0, 0, 2	2, 2, 2	III, III^*, I_2	2 : 2
D2	0	0	0	-999	-12150	0	2	+	8, 9, 1	0, 0, 1	4, 2, 1	I_1^*, III^*, I_1	2 : 1
E1	0	0	0	-6	5	1	2	+	4, 3, 1	0, 0, 1	2, 2, 1	III, III, I_1	2 : 2
E2	0	0	0	9	26	1	2	-	8, 3, 2	0, 0, 2	4, 2, 2	I_1^*, III, I_2	2 : 1
F1	0	0	0	-66	205	1	4	+	4, 7, 1	0, 1, 1	2, 4, 1	III, I_1^*, I_1	2 : 2
F2	0	0	0	-111	-110	1	4	+	8, 8, 2	0, 2, 2	4, 4, 2	I_1^*, I_2^*, I_2	2 : 1, 3, 4
F3	0	0	0	-1371	-19514	1	2	+	10, 10, 1	0, 4, 1	2, 4, 1	III^*, I_4^*, I_1	2 : 2
F4	0	0	0	429	-866	1	2	-	10, 7, 4	0, 1, 4	2, 2, 2	III^*, I_1^*, I_4	2 : 2
G1	0	0	0	-66	-1339	0	4	-	4, 9, 4	0, 3, 4	2, 4, 4	III, I_3^*, I_4	2 : 2
G2	0	0	0	-2271	-41470	0	4	+	8, 12, 2	0, 6, 2	4, 4, 2	I_1^*, I_6^*, I_2	2 : 1, 3, 4
G3	0	0	0	-36291	-2661010	0	2	+	10, 9, 1	0, 3, 1	2, 2, 1	III^*, I_3^*, I_1	2 : 2
G4	0	0	0	-3531	9686	0	2	+	10, 18, 1	0, 12, 1	2, 4, 1	III^*, I_{12}^*, I_1	2 : 2
H1	0	0	0	-3	110	0	2	-	10, 6, 1	0, 0, 1	2, 2, 1	III^*, I_1^*, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 505A–510F

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
505	$N = 505 = 5 \cdot 101$ (1 isogeny class)												505
A1	1	-1	0	-10	15	1	2	+	1, 1	1, 1	1, 1	I_1, I_1	2 : 2
A2	1	-1	0	-5	26	1	2	-	2, 2	2, 2	2, 2	I_2, I_2	2 : 1
506	$N = 506 = 2 \cdot 11 \cdot 23$ (6 isogeny classes)												506
A1	1	0	1	-48	-130	1	1	+	7, 1, 1	7, 1, 1	1, 1, 1	I_7, I_1, I_1	
B1	1	-1	0	-290561	60356981	0	1	+	3, 7, 1	3, 7, 1	1, 1, 1	I_3, I_7, I_1	
C1	1	0	1	-12	8	0	3	+	1, 3, 1	1, 3, 1	1, 3, 1	I_1, I_3, I_1	3 : 2
C2	1	0	1	-397	-3072	0	1	+	3, 1, 3	3, 1, 3	1, 1, 1	I_3, I_1, I_3	3 : 1
D1	1	-1	0	-935	11229	1	1	+	5, 5, 1	5, 5, 1	1, 5, 1	I_5, I_5, I_1	
E1	1	-1	1	-4	-1	1	1	+	3, 1, 1	3, 1, 1	3, 1, 1	I_3, I_1, I_1	
F1	1	0	0	-86	292	1	1	+	13, 1, 1	13, 1, 1	13, 1, 1	I_{13}, I_1, I_1	
507	$N = 507 = 3 \cdot 13^2$ (3 isogeny classes)												507
A1	1	1	0	-1693	26434	1	1	-	2, 8	2, 0	2, 3	I_2, IV^*	7 : 2
A2	1	1	0	-12678	-3060351	1	1	-	14, 8	14, 0	2, 3	I_{14}, IV^*	7 : 1
B1	1	1	1	-10	8	1	1	-	2, 2	2, 0	2, 1	I_2, II	7 : 2
B2	1	1	1	-75	-1422	1	1	-	14, 2	14, 0	2, 1	I_{14}, II	7 : 1
C1	1	1	1	81	-564	1	4	-	1, 7	1, 1	1, 4	I_1, I_1^*	2 : 2
C2	1	1	1	-764	-7324	1	4	+	2, 8	2, 2	2, 4	I_2, I_2^*	2 : 1, 3, 4
C3	1	1	1	-11749	-495058	1	2	+	4, 7	4, 1	2, 4	I_4, I_1^*	2 : 2
C4	1	1	1	-3299	64670	1	2	+	1, 10	1, 4	1, 4	I_1, I_4^*	2 : 2
510	$N = 510 = 2 \cdot 3 \cdot 5 \cdot 17$ (7 isogeny classes)												510
A1	1	1	0	-2673	67797	0	2	-	18, 7, 1, 2	18, 7, 1, 2	2, 1, 1, 2	I_{18}, I_7, I_1, I_2	2 : 2
A2	1	1	0	-46193	3801813	0	2	+	9, 14, 2, 1	9, 14, 2, 1	1, 2, 2, 1	I_9, I_{14}, I_2, I_1	2 : 1
B1	1	0	1	-723	-7634	0	2	-	14, 3, 1, 2	14, 3, 1, 2	2, 3, 1, 2	I_{14}, I_3, I_1, I_2	2 : 2
B2	1	0	1	-11603	-482002	0	2	+	7, 6, 2, 1	7, 6, 2, 1	1, 6, 2, 1	I_7, I_6, I_2, I_1	2 : 1
C1	1	1	1	14	59	0	2	-	2, 5, 1, 2	2, 5, 1, 2	2, 1, 1, 2	I_2, I_5, I_1, I_2	2 : 2
C2	1	1	1	-156	603	0	2	+	1, 10, 2, 1	1, 10, 2, 1	1, 2, 2, 1	I_1, I_{10}, I_2, I_1	2 : 1
D1	1	1	1	-101	299	1	4	+	12, 2, 2, 1	12, 2, 2, 1	12, 2, 2, 1	I_{12}, I_2, I_2, I_1	2 : 2
D2	1	1	1	-421	-3157	1	4	+	6, 4, 4, 2	6, 4, 4, 2	6, 2, 2, 2	I_6, I_4, I_4, I_2	2 : 1, 3, 4
D3	1	1	1	-6541	-206341	1	2	+	3, 2, 8, 1	3, 2, 8, 1	3, 2, 2, 1	I_3, I_2, I_8, I_1	2 : 2
D4	1	1	1	579	-14757	1	2	-	3, 8, 2, 4	3, 8, 2, 4	3, 2, 2, 4	I_3, I_8, I_2, I_4	2 : 2
E1	1	1	1	-80	305	0	4	-	16, 1, 1, 1	16, 1, 1, 1	16, 1, 1, 1	I_{16}, I_1, I_1, I_1	2 : 2
E2	1	1	1	-1360	18737	0	8	+	8, 2, 2, 2	8, 2, 2, 2	8, 2, 2, 2	I_8, I_2, I_2, I_2	2 : 1, 3, 4
E3	1	1	1	-1440	16305	0	8	+	4, 4, 4, 4	4, 4, 4, 4	4, 2, 4, 4	I_4, I_4, I_4, I_4	2 : 2, 5, 6
E4	1	1	1	-21760	1226417	0	4	+	4, 1, 1, 1	4, 1, 1, 1	4, 1, 1, 1	I_4, I_1, I_1, I_1	2 : 2
E5	1	1	1	-7220	-224143	0	4	+	2, 8, 8, 2	2, 8, 8, 2	2, 2, 8, 2	I_2, I_8, I_8, I_2	2 : 3, 7, 8
E6	1	1	1	3060	102705	0	4	-	2, 2, 2, 8	2, 2, 2, 8	2, 2, 2, 8	I_2, I_2, I_2, I_8	2 : 3
E7	1	1	1	-113470	-14759143	0	2	+	1, 16, 4, 1	1, 16, 4, 1	1, 2, 4, 1	I_1, I_{16}, I_4, I_1	2 : 5
E8	1	1	1	6550	-962215	0	2	-	1, 4, 16, 1	1, 4, 16, 1	1, 2, 16, 1	I_1, I_4, I_{16}, I_1	2 : 5
F1	1	0	0	4	0	0	2	-	4, 1, 1, 1	4, 1, 1, 1	4, 1, 1, 1	I_4, I_1, I_1, I_1	2 : 2
F2	1	0	0	-16	-4	0	4	+	2, 2, 2, 2	2, 2, 2, 2	2, 2, 2, 2	I_2, I_2, I_2, I_2	2 : 1, 3, 4
F3	1	0	0	-186	-990	0	2	+	1, 4, 4, 1	1, 4, 4, 1	1, 4, 2, 1	I_1, I_4, I_4, I_1	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
510	$N = 510 = 2 \cdot 3 \cdot 5 \cdot 17$ (continued)												510
G1	1	0	0	25	-375	0	6	-	6, 3, 3, 2	6, 3, 3, 2	6, 3, 3, 2	I_6, I_3, I_3, I_2	2 : 2; 3 : 3
G2	1	0	0	-655	-6223	0	6	+	3, 6, 6, 1	3, 6, 6, 1	3, 6, 6, 1	I_3, I_6, I_6, I_1	2 : 1; 3 : 4
G3	1	0	0	-3275	-72435	0	2	-	2, 1, 1, 6	2, 1, 1, 6	2, 1, 1, 2	I_2, I_1, I_1, I_6	2 : 4; 3 : 1
G4	1	0	0	-52405	-4621873	0	2	+	1, 2, 2, 3	1, 2, 2, 3	1, 2, 2, 1	I_1, I_2, I_2, I_3	2 : 3; 3 : 2
513	$N = 513 = 3^3 \cdot 19$ (2 isogeny classes)												513
A1	1	-1	0	-42	-127	1	1	-	11, 1	0, 1	1, 1	II^*, I_1	
B1	1	-1	1	-5	6	1	1	-	5, 1	0, 1	3, 1	IV, I_1	
514	$N = 514 = 2 \cdot 257$ (2 isogeny classes)												514
A1	1	-1	1	-91	-245	1	4	+	16, 1	16, 1	16, 1	I_{16}, I_1	2 : 2
A2	1	-1	1	-1371	-19189	1	4	+	8, 2	8, 2	8, 2	I_8, I_2	2 : 1, 3, 4
A3	1	-1	1	-21931	-1244565	1	2	+	4, 1	4, 1	4, 1	I_4, I_1	2 : 2
A4	1	-1	1	-1291	-21589	1	4	-	4, 4	4, 4	4, 4	I_4, I_4	2 : 2
B1	1	0	0	-4	0	1	2	+	4, 1	4, 1	4, 1	I_4, I_1	2 : 2
B2	1	0	0	16	4	1	2	-	2, 2	2, 2	2, 2	I_2, I_2	2 : 1
516	$N = 516 = 2^2 \cdot 3 \cdot 43$ (4 isogeny classes)												516
A1	0	-1	0	-4	-8	0	1	-	8, 1, 1	0, 1, 1	1, 1, 1	IV^*, I_1, I_1	
B1	0	-1	0	11	-47	1	1	-	8, 4, 1	0, 4, 1	3, 2, 1	IV^*, I_4, I_1	
C1	0	1	0	-13	-28	0	2	-	4, 1, 2	0, 1, 2	3, 1, 2	IV, I_1, I_2	2 : 2
C2	0	1	0	-228	-1404	0	2	+	8, 2, 1	0, 2, 1	3, 2, 1	IV^*, I_2, I_1	2 : 1
D1	0	1	0	-44	-732	0	3	-	8, 9, 1	0, 9, 1	3, 9, 1	IV^*, I_9, I_1	3 : 2
D2	0	1	0	-7604	-257772	0	1	-	8, 3, 3	0, 3, 3	1, 3, 3	IV^*, I_3, I_3	3 : 1
517	$N = 517 = 11 \cdot 47$ (3 isogeny classes)												517
A1	0	-1	1	36	-3	0	1	-	3, 2	3, 2	1, 2	I_3, I_2	
B1	0	0	1	-16	-26	0	1	-	1, 2	1, 2	1, 2	I_1, I_2	
C1	0	-1	1	-52	-3863	1	1	-	3, 4	3, 4	3, 4	I_3, I_4	
520	$N = 520 = 2^3 \cdot 5 \cdot 13$ (2 isogeny classes)												520
A1	0	0	0	-23	42	1	2	+	8, 1, 1	0, 1, 1	2, 1, 1	I_1^*, I_1, I_1	2 : 2
A2	0	0	0	-43	-42	1	4	+	10, 2, 2	0, 2, 2	2, 2, 2	III^*, I_2, I_2	2 : 1, 3, 4
A3	0	0	0	-563	-5138	1	2	+	11, 4, 1	0, 4, 1	1, 2, 1	II^*, I_4, I_1	2 : 2
A4	0	0	0	157	-322	1	2	-	11, 1, 4	0, 1, 4	1, 1, 2	II^*, I_1, I_4	2 : 2
B1	0	-1	0	-20	-28	0	2	+	8, 1, 1	0, 1, 1	4, 1, 1	I_1^*, I_1, I_1	2 : 2
B2	0	-1	0	0	-100	0	2	-	10, 2, 2	0, 2, 2	2, 2, 2	III^*, I_2, I_2	2 : 1
522	$N = 522 = 2 \cdot 3^2 \cdot 29$ (13 isogeny classes)												522
A1	1	-1	0	12	-208	1	1	-	5, 9, 1	5, 0, 1	1, 2, 1	I_5, III^*, I_1	
B1	1	-1	0	-2046	36244	0	2	-	22, 3, 1	22, 0, 1	2, 2, 1	I_{22}, III, I_1	2 : 2
B2	1	-1	0	-32766	2291092	0	2	+	11, 3, 2	11, 0, 2	1, 2, 2	I_{11}, III, I_2	2 : 1
C1	1	-1	0	-6	-54	0	3	-	1, 3, 3	1, 0, 3	1, 2, 3	I_1, III, I_3	3 : 2
C2	1	-1	0	-1311	-17947	0	1	-	3, 9, 1	3, 0, 1	1, 2, 1	I_3, III^*, I_1	3 : 1
D1	1	-1	0	-9	-3699	0	1	-	7, 13, 1	7, 7, 1	1, 2, 1	I_7, I_1^*, I_1	7 : 2

TABLE 1: ELLIPTIC CURVES 522E–528C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
522	$N = 522 = 2 \cdot 3^2 \cdot 29$ (continued)												522
E1	1	-1	0	-45	139	1	1	-	1, 9, 1	1, 3, 1	1, 4, 1	I_1, I_3^*, I_1	
F1	1	-1	0	45	-203	1	1	-	10, 6, 1	10, 0, 1	2, 1, 1	I_{10}, I_0^*, I_1	5 : 2
F2	1	-1	0	-4095	102577	1	1	-	2, 6, 5	2, 0, 5	2, 1, 5	I_2, I_0^*, I_5	5 : 1
G1	1	-1	1	-18416	-960173	0	2	-	22, 9, 1	22, 0, 1	22, 2, 1	I_{22}, III^*, I_1	2 : 2
G2	1	-1	1	-294896	-61564589	0	2	+	11, 9, 2	11, 0, 2	11, 2, 2	I_{11}, III^*, I_2	2 : 1
H1	1	-1	1	-146	713	0	3	-	3, 3, 1	3, 0, 1	3, 2, 1	I_3, III, I_1	3 : 2
H2	1	-1	1	-56	1513	0	1	-	1, 9, 3	1, 0, 3	1, 2, 1	I_1, III^*, I_3	3 : 1
I1	1	-1	1	1	7	1	1	-	5, 3, 1	5, 0, 1	5, 2, 1	I_5, III, I_1	
J1	1	-1	1	-509	4677	1	1	-	13, 7, 1	13, 1, 1	13, 4, 1	I_{13}, I_1^*, I_1	
K1	1	-1	1	4	47	0	4	-	4, 7, 1	4, 1, 1	4, 4, 1	I_4, I_1^*, I_1	2 : 2
K2	1	-1	1	-176	911	0	4	+	2, 8, 2	2, 2, 2	2, 4, 2	I_2, I_2^*, I_2	2 : 1, 3, 4
K3	1	-1	1	-446	-2329	0	2	+	1, 7, 4	1, 1, 4	1, 2, 4	I_1, I_1^*, I_4	2 : 2
K4	1	-1	1	-2786	57287	0	2	+	1, 10, 1	1, 4, 1	1, 4, 1	I_1, I_4^*, I_1	2 : 2
L1	1	-1	1	-11	-17	0	1	-	2, 6, 1	2, 0, 1	2, 1, 1	I_2, I_0^*, I_1	
M1	1	-1	1	-69341	-33115291	0	1	-	11, 27, 1	11, 21, 1	11, 2, 1	I_{11}, I_{21}^*, I_1	3 : 2
M2	1	-1	1	619564	858878903	0	3	-	33, 13, 3	33, 7, 3	33, 2, 3	I_{33}, I_7^*, I_3	3 : 1
524	$N = 524 = 2^2 \cdot 131$ (1 isogeny class)												524
A1	0	1	0	-309	1991	1	1	-	8, 1	0, 1	1, 1	IV^*, I_1	
525	$N = 525 = 3 \cdot 5^2 \cdot 7$ (4 isogeny classes)												525
A1	1	1	1	-63	156	1	4	+	1, 7, 1	1, 1, 1	1, 4, 1	I_1, I_1^*, I_1	2 : 2
A2	1	1	1	-188	-844	1	4	+	2, 8, 2	2, 2, 2	2, 4, 2	I_2, I_2^*, I_2	2 : 1, 3, 4
A3	1	1	1	-2813	-58594	1	2	+	1, 10, 1	1, 4, 1	1, 4, 1	I_1, I_4^*, I_1	2 : 2
A4	1	1	1	437	-4594	1	2	-	4, 7, 4	4, 1, 4	2, 4, 2	I_4, I_1^*, I_4	2 : 2
B1	1	1	0	25	0	0	2	-	2, 6, 1	2, 0, 1	2, 2, 1	I_2, I_0^*, I_1	2 : 2
B2	1	1	0	-100	-125	0	4	+	4, 6, 2	4, 0, 2	2, 4, 2	I_4, I_0^*, I_2	2 : 1, 3, 4
B3	1	1	0	-1225	-17000	0	4	+	2, 6, 4	2, 0, 4	2, 4, 4	I_2, I_0^*, I_4	2 : 2, 5, 6
B4	1	1	0	-975	11250	0	2	+	8, 6, 1	8, 0, 1	2, 2, 1	I_8, I_0^*, I_1	2 : 2
B5	1	1	0	-19600	-1064375	0	2	+	1, 6, 2	1, 0, 2	1, 2, 2	I_1, I_0^*, I_2	2 : 3
B6	1	1	0	-850	-27125	0	2	-	1, 6, 8	1, 0, 8	1, 2, 8	I_1, I_0^*, I_8	2 : 3
C1	1	1	0	-450	3375	1	2	+	3, 9, 1	3, 0, 1	1, 2, 1	I_3, III^*, I_1	2 : 2
C2	1	1	0	175	12750	1	2	-	6, 9, 2	6, 0, 2	2, 2, 2	I_6, III^*, I_2	2 : 1
D1	1	0	0	-18	27	1	2	+	3, 3, 1	3, 0, 1	3, 2, 1	I_3, III, I_1	2 : 2
D2	1	0	0	7	102	1	2	-	6, 3, 2	6, 0, 2	6, 2, 2	I_6, III, I_2	2 : 1
528	$N = 528 = 2^4 \cdot 3 \cdot 11$ (10 isogeny classes)												528
A1	0	-1	0	-8	0	1	2	+	10, 1, 1	0, 1, 1	4, 1, 1	I_2^*, I_1, I_1	2 : 2
A2	0	-1	0	32	-32	1	2	-	11, 2, 2	0, 2, 2	4, 2, 2	I_3^*, I_2, I_2	2 : 1
B1	0	-1	0	1	-6	0	2	-	4, 4, 1	0, 4, 1	1, 2, 1	II, I_4, I_1	2 : 2
B2	0	-1	0	-44	-96	0	4	+	8, 2, 2	0, 2, 2	2, 2, 2	I_0^*, I_2, I_2	2 : 1, 3, 4
B3	0	-1	0	-704	-6960	0	2	+	10, 1, 1	0, 1, 1	4, 1, 1	I_2^*, I_1, I_1	2 : 2
B4	0	-1	0	-104	288	0	4	+	10, 1, 4	0, 1, 4	2, 1, 4	I_2^*, I_1, I_4	2 : 2
C1	0	-1	0	-8016	278928	0	2	+	10, 7, 1	0, 7, 1	4, 1, 1	I_7^*, I_7, I_1	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
528	$N = 528 = 2^4 \cdot 3 \cdot 11$ (continued)												528
D1	0	1	0	-12	12	0	2	+	8, 1, 1	0, 1, 1	2, 1, 1	I_0^*, I_1, I_1	2 : 2
D2	0	1	0	-32	-60	0	4	+	10, 2, 2	0, 2, 2	4, 2, 2	I_2^*, I_2, I_2	2 : 1, 3, 4
D3	0	1	0	-472	-4108	0	2	+	11, 4, 1	0, 4, 1	2, 4, 1	I_3^*, I_4, I_1	2 : 2
D4	0	1	0	88	-300	0	2	-	11, 1, 4	0, 1, 4	4, 1, 2	I_3^*, I_1, I_4	2 : 2
E1	0	-1	0	3	0	0	2	-	4, 2, 1	0, 2, 1	1, 2, 1	II, I_2, I_1	2 : 2
E2	0	-1	0	-12	12	0	2	+	8, 1, 2	0, 1, 2	1, 1, 2	I_0^*, I_1, I_2	2 : 1
F1	0	-1	0	-720	-5184	0	2	+	22, 5, 1	10, 5, 1	4, 1, 1	I_{14}^*, I_5, I_1	2 : 2; 5 : 3
F2	0	-1	0	1840	-35904	0	2	-	17, 10, 2	5, 10, 2	2, 2, 2	I_9^*, I_{10}, I_2	2 : 1; 5 : 4
F3	0	-1	0	-161040	24927936	0	2	+	14, 1, 5	2, 1, 5	4, 1, 1	I_6^*, I_1, I_5	2 : 4; 5 : 1
F4	0	-1	0	-160880	24979776	0	2	-	13, 2, 10	1, 2, 10	2, 2, 2	I_5^*, I_2, I_{10}	2 : 3; 5 : 2
G1	0	-1	0	-88	-272	1	2	+	14, 3, 1	2, 3, 1	4, 1, 1	I_6^*, I_3, I_1	2 : 2; 3 : 3
G2	0	-1	0	72	-1296	1	2	-	13, 6, 2	1, 6, 2	4, 2, 2	I_5^*, I_6, I_2	2 : 1; 3 : 4
G3	0	-1	0	-1288	18160	1	2	+	18, 1, 3	6, 1, 3	4, 1, 3	I_{10}^*, I_1, I_3	2 : 4; 3 : 1
G4	0	-1	0	-648	35568	1	2	-	15, 2, 6	3, 2, 6	4, 2, 6	I_7^*, I_2, I_6	2 : 3; 3 : 2
H1	0	1	0	-104	372	1	2	+	12, 3, 1	0, 3, 1	4, 3, 1	I_4^*, I_3, I_1	2 : 2
H2	0	1	0	-184	-364	1	4	+	12, 6, 2	0, 6, 2	4, 6, 2	I_4^*, I_6, I_2	2 : 1, 3, 4
H3	0	1	0	-2344	-44428	1	2	+	12, 3, 4	0, 3, 4	2, 3, 2	I_4^*, I_3, I_4	2 : 2
H4	0	1	0	696	-2124	1	4	-	12, 12, 1	0, 12, 1	4, 12, 1	I_4^*, I_{12}, I_1	2 : 2
I1	0	1	0	-77	-330	0	2	-	4, 10, 1	0, 10, 1	1, 10, 1	II, I_{10}, I_1	2 : 2
I2	0	1	0	-1292	-18312	0	2	+	8, 5, 2	0, 5, 2	1, 5, 2	I_0^*, I_5, I_2	2 : 1
J1	0	1	0	-32	-12	0	2	+	16, 1, 1	4, 1, 1	4, 1, 1	I_8^*, I_1, I_1	2 : 2
J2	0	1	0	-352	2420	0	4	+	14, 2, 2	2, 2, 2	4, 2, 2	I_6^*, I_2, I_2	2 : 1, 3, 4
J3	0	1	0	-5632	160820	0	2	+	13, 1, 1	1, 1, 1	4, 1, 1	I_5^*, I_1, I_1	2 : 2
J4	0	1	0	-192	4788	0	4	-	13, 4, 4	1, 4, 4	2, 4, 4	I_5^*, I_4, I_4	2 : 2
530	$N = 530 = 2 \cdot 5 \cdot 53$ (4 isogeny classes)												530
A1	1	0	1	-14	-188	0	3	-	2, 2, 3	2, 2, 3	2, 2, 3	I_2, I_2, I_3	3 : 2
A2	1	0	1	-2929	-61244	0	1	-	6, 6, 1	6, 6, 1	2, 2, 1	I_6, I_6, I_1	3 : 1
B1	1	-1	0	-4	0	1	2	+	4, 1, 1	4, 1, 1	2, 1, 1	I_4, I_1, I_1	2 : 2
B2	1	-1	0	16	-12	1	2	-	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1
C1	1	-1	0	1226	30580	1	1	-	10, 10, 1	10, 10, 1	2, 10, 1	I_{10}, I_{10}, I_1	
D1	1	1	1	9	13	1	1	-	6, 2, 1	6, 2, 1	6, 2, 1	I_6, I_2, I_1	
532	$N = 532 = 2^2 \cdot 7 \cdot 19$ (1 isogeny class)												532
A1	0	0	0	4	5	0	2	-	4, 2, 1	0, 2, 1	1, 2, 1	IV, I_2, I_1	2 : 2
A2	0	0	0	-31	54	0	2	+	8, 1, 2	0, 1, 2	1, 1, 2	IV^*, I_1, I_2	2 : 1
534	$N = 534 = 2 \cdot 3 \cdot 89$ (1 isogeny class)												534
A1	1	1	1	-14	11	1	2	+	6, 2, 1	6, 2, 1	6, 2, 1	I_6, I_2, I_1	2 : 2
A2	1	1	1	26	107	1	2	-	3, 4, 2	3, 4, 2	3, 2, 2	I_3, I_4, I_2	2 : 1
537	$N = 537 = 3 \cdot 179$ (5 isogeny classes)												537
A1	1	1	0	-120	909	0	1	-	13, 1	13, 1	1, 1	I_{13}, I_1	
B1	0	1	1	-75	-277	0	1	-	2, 1	2, 1	2, 1	I_2, I_1	
C1	0	1	1	13	5	0	3	-	6, 1	6, 1	6, 1	I_6, I_1	3 : 2

TABLE 1: ELLIPTIC CURVES 537D–544E

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
537	$N = 537 = 3 \cdot 179$ (continued)												537
D1	1	0	1	1	-1	0	1	-	1, 1	1, 1	1, 1	I_1, I_1	
E1	0	1	1	-340	2308	0	5	-	10, 1	10, 1	10, 1	I_{10}, I_1	5 : 2
E2	0	1	1	2450	-39812	0	1	-	2, 5	2, 5	2, 1	I_2, I_5	5 : 1
539	$N = 539 = 7^2 \cdot 11$ (4 isogeny classes)												539
A1	0	-1	1	-4377	-110013	0	1	-	8, 1	2, 1	2, 1	I_2^*, I_1	3 : 2
A2	0	-1	1	-2417	-210708	0	1	-	12, 3	6, 3	2, 1	I_6^*, I_3	3 : 1, 3
A3	0	-1	1	21593	5467657	0	1	-	8, 9	2, 9	2, 1	I_2^*, I_9	3 : 2
B1	0	0	1	98	-86	0	1	-	8, 1	2, 1	2, 1	I_2^*, I_1	
C1	1	0	1	170	-3237	1	2	-	9, 2	3, 2	4, 2	I_3^*, I_2	2 : 2
C2	1	0	1	-2525	-45279	1	2	+	12, 1	6, 1	4, 1	I_6^*, I_1	2 : 1
D1	0	1	1	-16	-66	1	1	-	6, 1	0, 1	2, 1	I_0^*, I_1	5 : 2
D2	0	1	1	-506	7774	1	1	-	6, 5	0, 5	2, 5	I_0^*, I_5	5 : 1, 3
D3	0	1	1	-383196	91174234	1	1	-	6, 1	0, 1	2, 1	I_0^*, I_1	5 : 2
540	$N = 540 = 2^2 \cdot 3^3 \cdot 5$ (6 isogeny classes)												540
A1	0	0	0	-33	73	0	3	-	4, 3, 1	0, 0, 1	3, 1, 1	IV, II, I_1	3 : 2
A2	0	0	0	27	297	0	1	-	4, 9, 3	0, 0, 3	1, 1, 1	IV, IV^*, I_3	3 : 1
B1	0	0	0	3	1	1	1	-	4, 3, 1	0, 0, 1	1, 1, 1	IV, II, I_1	3 : 2
B2	0	0	0	-57	169	1	3	-	4, 5, 3	0, 0, 3	3, 3, 3	IV, IV, I_3	3 : 1
C1	0	0	0	-648	6372	1	3	-	8, 9, 2	0, 0, 2	3, 3, 2	IV^*, IV^*, I_2	3 : 2
C2	0	0	0	1512	33588	1	1	-	8, 11, 6	0, 0, 6	1, 1, 2	IV^*, II^*, I_6	3 : 1
D1	0	0	0	27	-27	1	3	-	4, 9, 1	0, 0, 1	3, 3, 1	IV, IV^*, I_1	3 : 2
D2	0	0	0	-513	-4563	1	1	-	4, 11, 3	0, 0, 3	1, 1, 1	IV, II^*, I_3	3 : 1
E1	0	0	0	-72	-236	0	1	-	8, 3, 2	0, 0, 2	1, 1, 2	IV^*, II, I_2	3 : 2
E2	0	0	0	168	-1244	0	3	-	8, 5, 6	0, 0, 6	3, 1, 6	IV^*, IV, I_6	3 : 1
F1	0	0	0	3	-11	0	3	-	4, 3, 3	0, 0, 3	3, 1, 3	IV, II, I_3	3 : 2
F2	0	0	0	-297	-1971	0	1	-	4, 9, 1	0, 0, 1	1, 3, 1	IV, IV^*, I_1	3 : 1
542	$N = 542 = 2 \cdot 271$ (2 isogeny classes)												542
A1	1	1	1	-37	-149	0	2	-	14, 1	14, 1	14, 1	I_{14}, I_1	2 : 2
A2	1	1	1	-677	-7061	0	2	+	7, 2	7, 2	7, 2	I_7, I_2	2 : 1
B1	1	1	1	-8	9	1	1	-	7, 1	7, 1	7, 1	I_7, I_1	
544	$N = 544 = 2^5 \cdot 17$ (6 isogeny classes)												544
A1	0	0	0	-5	4	1	2	+	6, 1	0, 1	2, 1	III, I_1	2 : 2
A2	0	0	0	5	18	1	2	-	9, 2	0, 2	1, 2	I_0^*, I_2	2 : 1
B1	0	-1	0	-22	48	0	2	+	6, 1	0, 1	2, 1	III, I_1	2 : 2
B2	0	-1	0	-17	65	0	2	-	12, 2	0, 2	2, 2	I_3^*, I_2	2 : 1
C1	0	1	0	-22	-48	0	2	+	6, 1	0, 1	2, 1	III, I_1	2 : 2
C2	0	1	0	-17	-65	0	2	-	12, 2	0, 2	2, 2	I_3^*, I_2	2 : 1
D1	0	0	0	-5	-4	0	2	+	6, 1	0, 1	2, 1	III, I_1	2 : 2
D2	0	0	0	5	-18	0	2	-	9, 2	0, 2	2, 2	I_0^*, I_2	2 : 1
E1	0	-1	0	-6	8	0	2	+	6, 1	0, 1	2, 1	III, I_1	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
544	$N = 544 = 2^5 \cdot 17$ (continued)												544
F1	0	1	0	−6	−8	0	2	+	6, 1	0, 1	2, 1	III, I ₁	2 : 2
F2	0	1	0	−16	12	0	2	+	9, 2	0, 2	1, 2	I ₀ [*] , I ₂	2 : 1
545	$N = 545 = 5 \cdot 109$ (1 isogeny class)												545
A1	1	−1	0	−284	1915	1	2	+	3, 1	3, 1	3, 1	I ₃ , I ₁	2 : 2
A2	1	−1	0	−289	1848	1	4	+	6, 2	6, 2	6, 2	I ₆ , I ₂	2 : 1, 3, 4
A3	1	−1	0	−914	−8277	1	2	+	3, 4	3, 4	3, 4	I ₃ , I ₄	2 : 2
A4	1	−1	0	256	7625	1	4	−	12, 1	12, 1	12, 1	I ₁₂ , I ₁	2 : 2
546	$N = 546 = 2 \cdot 3 \cdot 7 \cdot 13$ (7 isogeny classes)												546
A1	1	1	0	−108	−486	0	1	−	1, 5, 3, 1	1, 5, 3, 1	1, 1, 1, 1	I ₁ , I ₅ , I ₃ , I ₁	
B1	1	0	1	−8	−10	0	1	−	5, 1, 1, 1	5, 1, 1, 1	1, 1, 1, 1	I ₅ , I ₁ , I ₁ , I ₁	
C1	1	0	1	−57	−164	1	2	+	8, 3, 1, 1	8, 3, 1, 1	2, 3, 1, 1	I ₈ , I ₃ , I ₁ , I ₁	2 : 2
C2	1	0	1	−137	380	1	4	+	4, 6, 2, 2	4, 6, 2, 2	2, 6, 2, 2	I ₄ , I ₆ , I ₂ , I ₂	2 : 1, 3, 4
C3	1	0	1	−1957	33140	1	4	+	2, 12, 1, 1	2, 12, 1, 1	2, 12, 1, 1	I ₂ , I ₁₂ , I ₁ , I ₁	2 : 2
C4	1	0	1	403	2756	1	2	−	2, 3, 4, 4	2, 3, 4, 4	2, 3, 2, 4	I ₂ , I ₃ , I ₄ , I ₄	2 : 2
D1	1	0	1	13	182	0	3	−	3, 9, 1, 1	3, 9, 1, 1	1, 9, 1, 1	I ₃ , I ₉ , I ₁ , I ₁	3 : 2
D2	1	0	1	−122	−4948	0	3	−	9, 3, 3, 3	9, 3, 3, 3	1, 3, 3, 3	I ₉ , I ₃ , I ₃ , I ₃	3 : 1, 3
D3	1	0	1	−26057	−1621108	0	1	−	27, 1, 1, 1	27, 1, 1, 1	1, 1, 1, 1	I ₂₇ , I ₁ , I ₁ , I ₁	3 : 2
E1	1	1	1	−100484	−12372091	0	1	−	17, 7, 1, 5	17, 7, 1, 5	17, 1, 1, 1	I ₁₇ , I ₇ , I ₁ , I ₅	
F1	1	0	0	714	−82908	0	7	−	7, 7, 7, 1	7, 7, 7, 1	7, 7, 7, 1	I ₇ , I ₇ , I ₇ , I ₁	7 : 2
F2	1	0	0	−3674496	−2711401518	0	1	−	1, 1, 1, 7	1, 1, 1, 7	1, 1, 1, 1	I ₁ , I ₁ , I ₁ , I ₇	7 : 1
G1	1	0	0	−7	−7	0	2	+	4, 1, 1, 1	4, 1, 1, 1	4, 1, 1, 1	I ₄ , I ₁ , I ₁ , I ₁	2 : 2
G2	1	0	0	−27	45	0	4	+	2, 2, 2, 2	2, 2, 2, 2	2, 2, 2, 2	I ₂ , I ₂ , I ₂ , I ₂	2 : 1, 3, 4
G3	1	0	0	−417	3243	0	2	+	1, 1, 4, 1	1, 1, 4, 1	1, 1, 4, 1	I ₁ , I ₁ , I ₄ , I ₁	2 : 2
G4	1	0	0	43	255	0	2	−	1, 4, 1, 4	1, 4, 1, 4	1, 4, 1, 2	I ₁ , I ₄ , I ₁ , I ₄	2 : 2
549	$N = 549 = 3^2 \cdot 61$ (3 isogeny classes)												549
A1	1	−1	0	3	0	1	2	−	3, 1	0, 1	2, 1	III, I ₁	2 : 2
A2	1	−1	0	−12	9	1	2	+	3, 2	0, 2	2, 2	III, I ₂	2 : 1
B1	1	−1	1	25	−26	1	2	−	9, 1	0, 1	2, 1	III [*] , I ₁	2 : 2
B2	1	−1	1	−110	−134	1	2	+	9, 2	0, 2	2, 2	III [*] , I ₂	2 : 1
C1	1	−1	0	−18	−27	0	1	−	6, 1	0, 1	2, 1	I ₀ [*] , I ₁	
550	$N = 550 = 2 \cdot 5^2 \cdot 11$ (13 isogeny classes)												550
A1	1	1	0	−25	125	1	1	−	3, 7, 1	3, 1, 1	1, 4, 1	I ₃ , I ₁ [*] , I ₁	3 : 2
A2	1	1	0	225	−3125	1	1	−	1, 9, 3	1, 3, 3	1, 4, 1	I ₁ , I ₃ [*] , I ₃	3 : 1
B1	1	0	1	249	−6102	0	1	−	5, 11, 1	5, 5, 1	1, 2, 1	I ₅ , I ₅ [*] , I ₁	5 : 2
B2	1	0	1	−148501	−22038602	0	1	−	1, 7, 5	1, 1, 5	1, 2, 5	I ₁ , I ₁ [*] , I ₅	5 : 1
C1	1	0	1	−206	−1152	0	1	−	11, 2, 1	11, 0, 1	1, 1, 1	I ₁₁ , II, I ₁	
D1	1	0	1	49	48	0	3	−	1, 8, 1	1, 0, 1	1, 3, 1	I ₁ , IV [*] , I ₁	3 : 2
D2	1	0	1	−576	−6202	0	1	−	3, 8, 3	3, 0, 3	1, 1, 1	I ₃ , IV [*] , I ₃	3 : 1

TABLE 1: ELLIPTIC CURVES 550F–555B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
550	$N = 550 = 2 \cdot 5^2 \cdot 11$ (continued)												550
F1	1	0	1	−701	−7202	1	1	−	1, 9, 1	1, 0, 1	1, 2, 1	I_{1,III^*,I_1}	5 : 2
F2	1	0	1	4924	75298	1	1	−	5, 9, 5	5, 0, 5	1, 2, 5	I_{5,III^*,I_5}	5 : 1, 3
F3	1	0	1	−758201	254051548	1	1	−	25, 9, 1	25, 0, 1	1, 2, 1	I_{25,III^*,I_1}	5 : 2
G1	1	0	1	−6	8	1	2	−	4, 3, 1	4, 0, 1	2, 2, 1	I_{4,III,I_1}	2 : 2
G2	1	0	1	−106	408	1	2	+	2, 3, 2	2, 0, 2	2, 2, 2	I_{2,III,I_2}	2 : 1
H1	1	1	1	2	1	0	1	−	1, 2, 1	1, 0, 1	1, 1, 1	I_{1,II,I_1}	3 : 2
H2	1	1	1	−23	−59	0	1	−	3, 2, 3	3, 0, 3	3, 1, 1	I_{3,II,I_3}	3 : 1
I1	1	1	1	−2213	39531	1	1	−	7, 7, 3	7, 1, 3	7, 4, 3	I_{7,I_1^*,I_3}	3 : 2
I2	1	1	1	7412	212781	1	1	−	21, 9, 1	21, 3, 1	21, 4, 1	I_{21,I_3^*,I_1}	3 : 1
J1	1	−1	1	−15	87	1	1	−	11, 3, 1	11, 0, 1	11, 2, 1	I_{11,III,I_1}	
K1	1	1	1	−28	−69	0	1	−	1, 3, 1	1, 0, 1	1, 2, 1	I_{1,III,I_1}	5 : 2
K2	1	1	1	197	681	0	5	−	5, 3, 5	5, 0, 5	5, 2, 5	I_{5,III,I_5}	5 : 1, 3
K3	1	1	1	−30328	2020281	0	5	−	25, 3, 1	25, 0, 1	25, 2, 1	I_{25,III,I_1}	5 : 2
L1	1	1	1	−138	1031	0	2	−	4, 9, 1	4, 0, 1	4, 2, 1	I_{4,III^*,I_1}	2 : 2
L2	1	1	1	−2638	51031	0	2	+	2, 9, 2	2, 0, 2	2, 2, 2	I_{2,III^*,I_2}	2 : 1
M1	1	1	1	−5138	−143969	0	1	−	11, 8, 1	11, 0, 1	11, 1, 1	I_{11,IV^*,I_1}	
551	$N = 551 = 19 \cdot 29$ (4 isogeny classes)												551
A1	1	0	1	1	−5	1	1	−	2, 1	2, 1	2, 1	I_{2,I_1}	
B1	1	0	0	−11	14	1	1	−	2, 1	2, 1	2, 1	I_{2,I_1}	
C1	0	1	1	−2376	−61851	1	1	−	7, 2	7, 2	7, 2	I_{7,I_2}	
D1	0	1	1	−116	444	1	1	−	1, 2	1, 2	1, 2	I_{1,I_2}	
552	$N = 552 = 2^3 \cdot 3 \cdot 23$ (5 isogeny classes)												552
A1	0	−1	0	−64	−260	1	2	−	10, 6, 1	0, 6, 1	2, 2, 1	III^*,I_6,I_1	2 : 2
A2	0	−1	0	−1144	−14516	1	2	+	11, 3, 2	0, 3, 2	1, 1, 2	II^*,I_3,I_2	2 : 1
B1	0	−1	0	−2908	61876	0	2	−	8, 14, 1	0, 14, 1	2, 2, 1	I_{1,I_{14},I_1}^*	2 : 2
B2	0	−1	0	−46648	3893500	0	2	+	10, 7, 2	0, 7, 2	2, 1, 2	III^*,I_{7,I_2}	2 : 1
C1	0	−1	0	4	−12	0	2	−	8, 2, 1	0, 2, 1	2, 2, 1	I_{1,I_2,I_1}^*	2 : 2
C2	0	−1	0	−56	−132	0	2	+	10, 1, 2	0, 1, 2	2, 1, 2	III^*,I_{1,I_2}	2 : 1
D1	0	−1	0	−207	−1080	1	2	+	4, 3, 1	0, 3, 1	2, 1, 1	III,I_3,I_1	2 : 2
D2	0	−1	0	−212	−1020	1	4	+	8, 6, 2	0, 6, 2	4, 2, 2	I_{1,I_6,I_2}^*	2 : 1, 3, 4
D3	0	−1	0	−752	6972	1	4	+	10, 3, 4	0, 3, 4	2, 1, 4	III^*,I_3,I_4	2 : 2
D4	0	−1	0	248	−5252	1	2	−	10, 12, 1	0, 12, 1	2, 2, 1	III^*,I_{12,I_1}	2 : 2
E1	0	1	0	−4	32	1	4	−	8, 4, 1	0, 4, 1	4, 4, 1	I_{1,I_4,I_1}^*	2 : 2
E2	0	1	0	−184	896	1	4	+	10, 2, 2	0, 2, 2	2, 2, 2	III^*,I_{2,I_2}	2 : 1, 3, 4
E3	0	1	0	−304	−544	1	2	+	11, 1, 4	0, 1, 4	1, 1, 2	II^*,I_{1,I_4}	2 : 2
E4	0	1	0	−2944	60512	1	2	+	11, 1, 1	0, 1, 1	1, 1, 1	II^*,I_{1,I_1}	2 : 2
555	$N = 555 = 3 \cdot 5 \cdot 37$ (2 isogeny classes)												555
A1	0	1	1	−1	−29	0	1	−	1, 5, 1	1, 5, 1	1, 1, 1	I_{1,I_5,I_1}	
B1	0	1	1	−2405	−47869	0	3	−	15, 3, 1	15, 3, 1	15, 3, 1	I_{15,I_2,I_1}	3 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
556	$N = 556 = 2^2 \cdot 139$ (1 isogeny class)												556
A1	0	0	0	-8	9	1	1	-	4, 1	0, 1	3, 1	IV, I ₁	
557	$N = 557 = 557$ (2 isogeny classes)												557
A1	1	1	0	0	1	1	1	-	1	1	1	I ₁	
B1	0	-1	1	-268	1781	0	1	+	1	1	1	I ₁	
558	$N = 558 = 2 \cdot 3^2 \cdot 31$ (8 isogeny classes)												558
A1	1	-1	0	0	2	1	1	-	1, 3, 1	1, 0, 1	1, 2, 1	I ₁ , III, I ₁	
B1	1	-1	0	-48	288	0	3	-	5, 3, 3	5, 0, 3	1, 2, 3	I ₅ , III, I ₃	3 : 2
B2	1	-1	0	417	-6067	0	1	-	15, 9, 1	15, 0, 1	1, 2, 1	I ₁₅ , III*, I ₁	3 : 1
C1	1	-1	0	-6	-28	0	2	-	4, 6, 1	4, 0, 1	2, 2, 1	I ₄ , I ₀ *, I ₁	2 : 2
C2	1	-1	0	-186	-928	0	4	+	2, 6, 2	2, 0, 2	2, 4, 2	I ₂ , I ₀ *, I ₂	2 : 1, 3, 4
C3	1	-1	0	-2976	-61750	0	2	+	1, 6, 1	1, 0, 1	1, 2, 1	I ₁ , I ₀ *, I ₁	2 : 2
C4	1	-1	0	-276	134	0	2	+	1, 6, 4	1, 0, 4	1, 2, 2	I ₁ , I ₀ *, I ₄	2 : 2
D1	1	-1	0	135	-243	1	1	-	5, 11, 1	5, 5, 1	1, 4, 1	I ₅ , I ₅ *, I ₁	5 : 2
D2	1	-1	0	-12555	544887	1	1	-	1, 7, 5	1, 1, 5	1, 4, 5	I ₁ , I ₁ *, I ₅	5 : 1
E1	1	-1	1	-2	-53	0	1	-	1, 9, 1	1, 0, 1	1, 2, 1	I ₁ , III*, I ₁	
F1	1	-1	1	46	209	1	3	-	15, 3, 1	15, 0, 1	15, 2, 1	I ₁₅ , III, I ₁	3 : 2
F2	1	-1	1	-434	-7343	1	1	-	5, 9, 3	5, 0, 3	5, 2, 3	I ₅ , III*, I ₃	3 : 1
G1	1	-1	1	-149	749	1	1	-	7, 7, 1	7, 1, 1	7, 4, 1	I ₇ , I ₁ *, I ₁	
H1	1	-1	1	-752	9213	0	1	-	1, 17, 1	1, 11, 1	1, 2, 1	I ₁ , I ₁₁ *, I ₁	
560	$N = 560 = 2^4 \cdot 5 \cdot 7$ (6 isogeny classes)												560
A1	0	1	0	-1	-5	0	1	-	8, 1, 1	0, 1, 1	1, 1, 1	I ₀ *, I ₁ , I ₁	
B1	0	0	0	-412	-3316	0	1	-	8, 5, 3	0, 5, 3	1, 5, 1	I ₀ *, I ₅ , I ₃	
C1	0	-1	0	-21	-35	0	1	-	12, 1, 1	0, 1, 1	1, 1, 1	II*, I ₁ , I ₁	3 : 2
C2	0	-1	0	139	61	0	1	-	12, 3, 3	0, 3, 3	1, 1, 1	II*, I ₃ , I ₃	3 : 1, 3
C3	0	-1	0	-2101	39485	0	1	-	12, 9, 1	0, 9, 1	1, 1, 1	II*, I ₉ , I ₁	3 : 2
D1	0	0	0	37	138	1	2	-	16, 2, 1	4, 2, 1	4, 2, 1	I ₈ *, I ₂ , I ₁	2 : 2
D2	0	0	0	-283	1482	1	4	+	14, 4, 2	2, 4, 2	4, 2, 2	I ₆ *, I ₄ , I ₂	2 : 1, 3, 4
D3	0	0	0	-1403	-18902	1	2	+	13, 8, 1	1, 8, 1	2, 2, 1	I ₅ *, I ₈ , I ₁	2 : 2
D4	0	0	0	-4283	107882	1	4	+	13, 2, 4	1, 2, 4	4, 2, 4	I ₅ *, I ₂ , I ₄	2 : 2
E1	0	0	0	32	-212	1	1	-	8, 1, 5	0, 1, 5	2, 1, 5	I ₀ *, I ₁ , I ₅	
F1	0	-1	0	-5	25	1	1	-	8, 3, 1	0, 3, 1	2, 3, 1	I ₀ *, I ₃ , I ₁	3 : 2
F2	0	-1	0	-805	9065	1	1	-	8, 1, 3	0, 1, 3	2, 1, 1	I ₀ *, I ₁ , I ₃	3 : 1
561	$N = 561 = 3 \cdot 11 \cdot 17$ (4 isogeny classes)												561
A1	0	-1	1	-3729	-86416	0	1	-	10, 1, 1	10, 1, 1	2, 1, 1	I ₁₀ , I ₁ , I ₁	
B1	0	1	1	-269	1628	1	1	-	2, 5, 1	2, 5, 1	2, 5, 1	I ₂ , I ₅ , I ₁	
C1	0	1	1	-8	8	1	1	-	4, 1, 1	4, 1, 1	4, 1, 1	I ₄ , I ₁ , I ₁	
D1	1	0	0	-12	15	0	2	+	1, 1, 1	1, 1, 1	1, 1, 1	I ₁ , I ₁ , I ₁	2 : 2
D2	1	0	0	-17	0	0	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I ₂ , I ₂ , I ₂	2 : 1, 3, 4
D3	1	0	0	-182	-957	0	2	+	1, 1, 4	1, 1, 4	1, 1, 4	I ₁ , I ₁ , I ₄	2 : 2

TABLE 1: ELLIPTIC CURVES 562A–570F

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
562	$N = 562 = 2 \cdot 281$ (1 isogeny class)												562
A1	1	1	0	-4	0	0	2	+	4, 1	4, 1	2, 1	I_4, I_1	2 : 2
A2	1	1	0	16	20	0	2	-	2, 2	2, 2	2, 2	I_2, I_2	2 : 1
563	$N = 563 = 563$ (1 isogeny class)												563
A1	1	1	1	-15	16	2	1	-	1	1	1	I_1	
564	$N = 564 = 2^2 \cdot 3 \cdot 47$ (2 isogeny classes)												564
A1	0	-1	0	-221	-1191	1	1	+	8, 5, 1	0, 5, 1	1, 1, 1	IV^*, I_5, I_1	
B1	0	1	0	-37	71	1	3	+	8, 3, 1	0, 3, 1	3, 3, 1	IV^*, I_3, I_1	3 : 2
B2	0	1	0	-517	-4681	1	1	+	8, 1, 3	0, 1, 3	1, 1, 1	IV^*, I_1, I_3	3 : 1
565	$N = 565 = 5 \cdot 113$ (1 isogeny class)												565
A1	1	0	1	-19	-33	0	1	-	3, 1	3, 1	1, 1	I_3, I_1	
566	$N = 566 = 2 \cdot 283$ (2 isogeny classes)												566
A1	1	-1	0	-2	4	1	1	-	4, 1	4, 1	2, 1	I_4, I_1	
B1	1	0	0	1	-1	0	1	-	1, 1	1, 1	1, 1	I_1, I_1	
567	$N = 567 = 3^4 \cdot 7$ (2 isogeny classes)												567
A1	1	-1	0	0	-3	1	1	-	4, 2	0, 2	1, 2	II, I_2	
B1	1	-1	1	-2	82	1	1	-	10, 2	0, 2	3, 2	IV^*, I_2	
568	$N = 568 = 2^3 \cdot 71$ (1 isogeny class)												568
A1	0	-1	0	-72	-212	0	1	+	11, 1	0, 1	1, 1	II^*, I_1	
570	$N = 570 = 2 \cdot 3 \cdot 5 \cdot 19$ (13 isogeny classes)												570
A1	1	1	0	-98	372	1	2	-	8, 3, 1, 2	8, 3, 1, 2	2, 1, 1, 2	I_8, I_3, I_1, I_2	2 : 2
A2	1	1	0	-1618	24388	1	2	+	4, 6, 2, 1	4, 6, 2, 1	2, 2, 2, 1	I_4, I_6, I_2, I_1	2 : 1
B1	1	1	0	-78	-972	0	2	-	14, 2, 3, 1	14, 2, 3, 1	2, 2, 1, 1	I_{14}, I_2, I_3, I_1	2 : 2
B2	1	1	0	-1998	-35148	0	2	+	7, 1, 6, 2	7, 1, 6, 2	1, 1, 2, 2	I_7, I_1, I_6, I_2	2 : 1
C1	1	1	0	-17	69	1	2	-	4, 1, 3, 2	4, 1, 3, 2	2, 1, 3, 2	I_4, I_1, I_3, I_2	2 : 2
C2	1	1	0	-397	2881	1	2	+	2, 2, 6, 1	2, 2, 6, 1	2, 2, 6, 1	I_2, I_2, I_6, I_1	2 : 1
D1	1	0	1	3676	-514654	0	2	-	28, 5, 1, 2	28, 5, 1, 2	2, 5, 1, 2	I_{28}, I_5, I_1, I_2	2 : 2
D2	1	0	1	-78244	-7985758	0	4	+	14, 10, 2, 4	14, 10, 2, 4	2, 10, 2, 2	I_{14}, I_{10}, I_2, I_4	2 : 1, 3, 4
D3	1	0	1	-1233444	-527363678	0	2	+	7, 20, 1, 2	7, 20, 1, 2	1, 20, 1, 2	I_7, I_{20}, I_1, I_2	2 : 2
D4	1	0	1	-233764	33569186	0	2	+	7, 5, 4, 8	7, 5, 4, 8	1, 5, 2, 2	I_7, I_5, I_4, I_8	2 : 2
E1	1	0	1	12	-14	1	2	-	8, 2, 1, 1	8, 2, 1, 1	2, 2, 1, 1	I_8, I_2, I_1, I_1	2 : 2
E2	1	0	1	-68	-142	1	4	+	4, 4, 2, 2	4, 4, 2, 2	2, 4, 2, 2	I_4, I_4, I_2, I_2	2 : 1, 3, 4
E3	1	0	1	-968	-11662	1	2	+	2, 2, 1, 4	2, 2, 1, 4	2, 2, 1, 2	I_2, I_2, I_1, I_4	2 : 2
E4	1	0	1	-448	3506	1	4	+	2, 8, 4, 1	2, 8, 4, 1	2, 8, 4, 1	I_2, I_8, I_4, I_1	2 : 2
F1	1	0	1	-23	506	0	6	-	6, 6, 3, 1	6, 6, 3, 1	2, 6, 3, 1	I_6, I_6, I_3, I_1	2 : 2; 3 : 3
F2	1	0	1	-1103	13898	0	6	+	3, 3, 6, 2	3, 3, 6, 2	1, 3, 6, 2	I_3, I_3, I_6, I_2	2 : 1; 3 : 4
F3	1	0	1	202	-13624	0	2	-	18, 2, 1, 3	18, 2, 1, 3	2, 2, 1, 3	I_{18}, I_2, I_1, I_2	2 : 4; 3 : 1

TABLE 1: ELLIPTIC CURVES 570G–574C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
570	$N = 570 = 2 \cdot 3 \cdot 5 \cdot 19$ (continued)												570
G1	1	1	1	−31	53	0	4	+	4, 1, 2, 1	4, 1, 2, 1	4, 1, 2, 1	I_4, I_1, I_2, I_1	2 : 2
G2	1	1	1	−51	−51	0	4	+	2, 2, 4, 2	2, 2, 4, 2	2, 2, 2, 2	I_2, I_2, I_4, I_2	2 : 1, 3, 4
G3	1	1	1	−621	−6207	0	2	+	1, 1, 8, 1	1, 1, 8, 1	1, 1, 2, 1	I_1, I_1, I_8, I_1	2 : 2
G4	1	1	1	199	−151	0	2	−	1, 4, 2, 4	1, 4, 2, 4	1, 2, 2, 2	I_1, I_4, I_2, I_4	2 : 2
H1	1	1	1	0	−3	0	2	−	2, 2, 1, 1	2, 2, 1, 1	2, 2, 1, 1	I_2, I_2, I_1, I_1	2 : 2
H2	1	1	1	−30	−75	0	2	+	1, 1, 2, 2	1, 1, 2, 2	1, 1, 2, 2	I_1, I_1, I_2, I_2	2 : 1
I1	1	1	1	−1900	32525	0	4	−	8, 5, 1, 4	8, 5, 1, 4	8, 1, 1, 4	I_8, I_5, I_1, I_4	2 : 2
I2	1	1	1	−30780	2065677	0	4	+	4, 10, 2, 2	4, 10, 2, 2	4, 2, 2, 2	I_4, I_{10}, I_2, I_2	2 : 1, 3, 4
I3	1	1	1	−31160	2011565	0	2	+	2, 20, 4, 1	2, 20, 4, 1	2, 2, 4, 1	I_2, I_{20}, I_4, I_1	2 : 2
I4	1	1	1	−492480	132819117	0	2	+	2, 5, 1, 1	2, 5, 1, 1	2, 1, 1, 1	I_2, I_5, I_1, I_1	2 : 2
J1	1	0	0	−1456	−21604	0	2	−	2, 14, 1, 1	2, 14, 1, 1	2, 14, 1, 1	I_2, I_{14}, I_1, I_1	2 : 2
J2	1	0	0	−23326	−1373170	0	2	+	1, 7, 2, 2	1, 7, 2, 2	1, 7, 2, 2	I_1, I_7, I_2, I_2	2 : 1
K1	1	0	0	−25871	1614201	0	6	−	24, 3, 3, 2	24, 3, 3, 2	24, 3, 1, 2	I_{24}, I_3, I_3, I_2	2 : 2; 3 : 3
K2	1	0	0	−414991	102863225	0	6	+	12, 6, 6, 1	12, 6, 6, 1	12, 6, 2, 1	I_{12}, I_6, I_6, I_1	2 : 1; 3 : 4
K3	1	0	0	85489	8420985	0	2	−	8, 1, 9, 6	8, 1, 9, 6	8, 1, 1, 6	I_8, I_1, I_9, I_6	2 : 4; 3 : 1
K4	1	0	0	−463231	77449961	0	2	+	4, 2, 18, 3	4, 2, 18, 3	4, 2, 2, 3	I_4, I_2, I_{18}, I_3	2 : 3; 3 : 2
L1	1	0	0	9335	−737383	0	10	−	20, 5, 5, 2	20, 5, 5, 2	20, 5, 5, 2	I_{20}, I_5, I_5, I_2	2 : 2; 5 : 3
L2	1	0	0	−87945	−8655975	0	10	+	10, 10, 10, 1	10, 10, 10, 1	10, 10, 10, 1	$I_{10}, I_{10}, I_{10}, I_1$	2 : 1; 5 : 4
L3	1	0	0	−3301465	−2309192023	0	2	−	4, 1, 1, 10	4, 1, 1, 10	4, 1, 1, 2	I_4, I_1, I_1, I_{10}	2 : 4; 5 : 1
L4	1	0	0	−52823445	−147775056075	0	2	+	2, 2, 2, 5	2, 2, 2, 5	2, 2, 2, 1	I_2, I_2, I_2, I_5	2 : 3; 5 : 2
M1	1	0	0	−10	20	0	4	−	4, 4, 1, 1	4, 4, 1, 1	4, 4, 1, 1	I_4, I_4, I_1, I_1	2 : 2
M2	1	0	0	−190	992	0	4	+	2, 2, 2, 2	2, 2, 2, 2	2, 2, 2, 2	I_2, I_2, I_2, I_2	2 : 1, 3, 4
M3	1	0	0	−220	650	0	2	+	1, 1, 4, 4	1, 1, 4, 4	1, 1, 4, 2	I_1, I_1, I_4, I_4	2 : 2
M4	1	0	0	−3040	64262	0	2	+	1, 1, 1, 1	1, 1, 1, 1	1, 1, 1, 1	I_1, I_1, I_1, I_1	2 : 2
571	$N = 571 = 571$ (2 isogeny classes)												571
A1	0	−1	1	−929	−10595	0	1	−	1	1	1	I_1	
B1	0	1	1	−4	2	2	1	−	1	1	1	I_1	
572	$N = 572 = 2^2 \cdot 11 \cdot 13$ (1 isogeny class)												572
A1	0	1	0	91	−121	0	3	−	8, 3, 2	0, 3, 2	3, 3, 2	IV^*, I_3, I_2	3 : 2
A2	0	1	0	−1669	−27401	0	1	−	8, 1, 6	0, 1, 6	1, 1, 6	IV^*, I_1, I_6	3 : 1
573	$N = 573 = 3 \cdot 191$ (3 isogeny classes)												573
A1	1	0	0	3	0	0	2	−	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
A2	1	0	0	−12	−3	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 1
B1	0	1	1	−1422	−21121	0	1	+	5, 1	5, 1	5, 1	I_5, I_1	
C1	0	1	1	−4	−2	1	1	+	3, 1	3, 1	3, 1	I_3, I_1	
574	$N = 574 = 2 \cdot 7 \cdot 41$ (10 isogeny classes)												574
A1	1	1	0	−2	−2	1	1	+	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	
B1	1	1	0	−2061	35165	1	2	+	10, 4, 1	10, 4, 1	2, 2, 1	I_{10}, I_4, I_1	2 : 2
B2	1	1	0	−2221	29181	1	2	+	5, 8, 2	5, 8, 2	1, 2, 2	I_5, I_8, I_2	2 : 1
C1	1	1	0	−84	80	0	2	+	14, 2, 1	14, 2, 1	2, 2, 1	I_{14}, I_2, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 574D–576F

574	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies	574
					$N = 574 = 2 \cdot 7 \cdot 41$				(continued)					
D1	1	0	1	-31679	5254674	0	2	-	34, 3, 2	34, 3, 2	2, 3, 2	I_{34}, I_3, I_2	2 : 2	
D2	1	0	1	-687039	218902034	0	2	+	17, 6, 4	17, 6, 4	1, 6, 2	I_{17}, I_6, I_4	2 : 1	
E1	1	-1	0	-40	-88	0	1	+	3, 1, 1	3, 1, 1	1, 1, 1	I_3, I_1, I_1		
F1	1	0	1	-80	190	1	3	+	5, 1, 3	5, 1, 3	1, 1, 3	I_5, I_1, I_3	3 : 2	
F2	1	0	1	-2335	-43598	1	1	+	15, 3, 1	15, 3, 1	1, 3, 1	I_{15}, I_3, I_1	3 : 1	
G1	1	1	1	-21	-5	1	1	+	11, 1, 1	11, 1, 1	11, 1, 1	I_{11}, I_1, I_1		
H1	1	-1	1	3	5	1	2	-	6, 1, 1	6, 1, 1	6, 1, 1	I_6, I_1, I_1	2 : 2	
H2	1	-1	1	-37	85	1	2	+	3, 2, 2	3, 2, 2	3, 2, 2	I_3, I_2, I_2	2 : 1	
I1	1	-1	1	-19353	958713	1	7	+	21, 7, 1	21, 7, 1	21, 7, 1	I_{21}, I_7, I_1	7 : 2	
I2	1	-1	1	-9611313	-11466507927	1	1	+	3, 1, 7	3, 1, 7	3, 1, 1	I_3, I_1, I_7	7 : 1	
J1	1	1	1	-175	789	0	5	+	5, 5, 1	5, 5, 1	5, 5, 1	I_5, I_5, I_1	5 : 2	
J2	1	1	1	-15785	-769911	0	1	+	1, 1, 5	1, 1, 5	1, 1, 5	I_1, I_1, I_5	5 : 1	575
575					$N = 575 = 5^2 \cdot 23$				(5 isogeny classes)					575
A1	1	-1	0	-2	1	1	1	+	2, 1	0, 1	1, 1	II, I_1		
B1	0	0	1	175	-1344	1	1	-	11, 1	5, 1	4, 1	I_5^*, I_1		
C1	0	-1	1	-458	3943	0	1	-	9, 1	0, 1	2, 1	III^*, I_1		
D1	1	-1	1	-55	72	1	1	+	8, 1	0, 1	3, 1	IV^*, I_1		
E1	0	1	1	-18	24	1	1	-	3, 1	0, 1	2, 1	III, I_1		576
576					$N = 576 = 2^6 \cdot 3^2$				(9 isogeny classes)					576
A1	0	0	0	0	8	1	2	-	10, 3	0, 0	2, 2	I_0^*, III	2 : 2; 3 : 3	
A2	0	0	0	-60	176	1	2	+	14, 3	0, 0	4, 2	I_4^*, III	2 : 1; 3 : 4	
A3	0	0	0	0	-216	1	2	-	10, 9	0, 0	2, 2	I_0^*, III^*	2 : 4; 3 : 1	
A4	0	0	0	-540	-4752	1	2	+	14, 9	0, 0	4, 2	I_4^*, III^*	2 : 3; 3 : 2	
B1	0	0	0	-39	-92	0	2	+	6, 7	0, 1	1, 4	II, I_1^*	2 : 2	
B2	0	0	0	-84	160	0	4	+	12, 8	0, 2	4, 4	I_2^*, I_2^*	2 : 1, 3, 4	
B3	0	0	0	-1164	15280	0	2	+	15, 7	0, 1	2, 2	I_5^*, I_1^*	2 : 2	
B4	0	0	0	276	1168	0	2	-	15, 10	0, 4	2, 4	I_5^*, I_4^*	2 : 2	
C1	0	0	0	-39	92	0	2	+	6, 7	0, 1	1, 2	II, I_1^*	2 : 2	
C2	0	0	0	-84	-160	0	4	+	12, 8	0, 2	4, 4	I_2^*, I_2^*	2 : 1, 3, 4	
C3	0	0	0	-1164	-15280	0	2	+	15, 7	0, 1	2, 4	I_5^*, I_1^*	2 : 2	
C4	0	0	0	276	-1168	0	2	-	15, 10	0, 4	2, 4	I_5^*, I_4^*	2 : 2	
D1	0	0	0	24	-56	0	2	-	10, 7	0, 1	2, 2	I_0^*, I_1^*	2 : 2	
D2	0	0	0	-156	-560	0	4	+	14, 8	0, 2	4, 4	I_4^*, I_2^*	2 : 1, 3, 4	
D3	0	0	0	-2316	-42896	0	2	+	16, 7	0, 1	2, 4	I_6^*, I_1^*	2 : 2	
D4	0	0	0	-876	9520	0	4	+	16, 10	0, 4	4, 4	I_6^*, I_4^*	2 : 2, 5, 6	
D5	0	0	0	-13836	626416	0	2	+	17, 8	0, 2	2, 2	I_7^*, I_2^*	2 : 4	
D6	0	0	0	564	37744	0	2	-	17, 14	0, 8	2, 4	I_7^*, I_8^*	2 : 4	
E1	0	0	0	0	-8	0	2	-	10, 3	0, 0	2, 2	I_0^*, III	2 : 2; 3 : 3	
E2	0	0	0	-60	-176	0	2	+	14, 3	0, 0	2, 2	I_4^*, III	2 : 1; 3 : 4	
E3	0	0	0	0	216	0	2	-	10, 9	0, 0	2, 2	I_0^*, III^*	2 : 4; 3 : 1	
E4	0	0	0	-540	4752	0	2	+	14, 9	0, 0	2, 2	I_4^*, III^*	2 : 3; 3 : 2	
F1	0	0	0	-3	0	0	2	+	6, 3	0, 0	1, 2	II, III	2 : 2	

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
576	$N = 576 = 2^6 \cdot 3^2$ (continued)												576
G1	0	0	0	-27	0	0	2	+	6, 9	0, 0	1, 2	II, III*	2 : 2
G2	0	0	0	108	0	0	2	-	12, 9	0, 0	2, 2	I ₂ *, III*	2 : 1
H1	0	0	0	9	0	1	2	-	6, 6	0, 0	1, 2	II, I ₀ *	2 : 2
H2	0	0	0	-36	0	1	4	+	12, 6	0, 0	4, 4	I ₂ *, I ₀ *	2 : 1, 3, 4
H3	0	0	0	-396	-3024	1	2	+	15, 6	0, 0	2, 2	I ₅ *, I ₀ *	2 : 2
H4	0	0	0	-396	3024	1	2	+	15, 6	0, 0	4, 2	I ₅ *, I ₀ *	2 : 2
I1	0	0	0	24	56	1	2	-	10, 7	0, 1	2, 4	I ₀ *, I ₁ *	2 : 2
I2	0	0	0	-156	560	1	4	+	14, 8	0, 2	4, 4	I ₄ *, I ₂ *	2 : 1, 3, 4
I3	0	0	0	-876	-9520	1	4	+	16, 10	0, 4	4, 4	I ₆ *, I ₄ *	2 : 2, 5, 6
I4	0	0	0	-2316	42896	1	2	+	16, 7	0, 1	4, 2	I ₆ *, I ₁ *	2 : 2
I5	0	0	0	-13836	-626416	1	2	+	17, 8	0, 2	2, 2	I ₇ *, I ₂ *	2 : 3
I6	0	0	0	564	-37744	1	2	-	17, 14	0, 8	4, 4	I ₇ *, I ₈ *	2 : 3
578	$N = 578 = 2 \cdot 17^2$ (1 isogeny class)												578
A1	1	1	1	-873	5783	0	2	+	6, 7	6, 1	6, 2	I ₆ , I ₁ *	2 : 2; 3 : 3
A2	1	1	1	-12433	528295	0	2	+	3, 8	3, 2	3, 4	I ₃ , I ₂ *	2 : 1; 3 : 4
A3	1	1	1	-29773	-1989473	0	2	+	2, 9	2, 3	2, 2	I ₂ , I ₃ *	2 : 4; 3 : 1
A4	1	1	1	-32663	-1583717	0	2	+	1, 12	1, 6	1, 4	I ₁ , I ₆ *	2 : 3; 3 : 2
579	$N = 579 = 3 \cdot 193$ (2 isogeny classes)												579
A1	0	-1	1	-2	11	0	1	-	5, 1	5, 1	1, 1	I ₅ , I ₁	
B1	1	0	0	-3	0	1	2	+	2, 1	2, 1	2, 1	I ₂ , I ₁	2 : 2
B2	1	0	0	12	3	1	2	-	1, 2	1, 2	1, 2	I ₁ , I ₂	2 : 1
580	$N = 580 = 2^2 \cdot 5 \cdot 29$ (2 isogeny classes)												580
A1	0	0	0	-8	-7	1	2	+	4, 2, 1	0, 2, 1	3, 2, 1	IV, I ₂ , I ₁	2 : 2
A2	0	0	0	17	-42	1	2	-	8, 1, 2	0, 1, 2	3, 1, 2	IV*, I ₁ , I ₂	2 : 1
B1	0	0	0	-32	-31	1	2	+	4, 3, 2	0, 3, 2	3, 3, 2	IV, I ₃ , I ₂	2 : 2
B2	0	0	0	113	-234	1	2	-	8, 6, 1	0, 6, 1	3, 6, 1	IV*, I ₆ , I ₁	2 : 1
582	$N = 582 = 2 \cdot 3 \cdot 97$ (4 isogeny classes)												582
A1	1	1	0	-15	-27	1	2	+	6, 2, 1	6, 2, 1	2, 2, 1	I ₆ , I ₂ , I ₁	2 : 2
A2	1	1	0	25	-99	1	2	-	3, 4, 2	3, 4, 2	1, 2, 2	I ₃ , I ₄ , I ₂	2 : 1
B1	1	1	1	-46658	-3898033	0	2	+	12, 14, 1	12, 14, 1	12, 2, 1	I ₁₂ , I ₁₄ , I ₁	2 : 2
B2	1	1	1	-746498	-248562097	0	2	+	6, 7, 2	6, 7, 2	6, 1, 2	I ₆ , I ₇ , I ₂	2 : 1
C1	1	1	1	-34	47	1	2	+	10, 2, 1	10, 2, 1	10, 2, 1	I ₁₀ , I ₂ , I ₁	2 : 2
C2	1	1	1	-514	4271	1	2	+	5, 1, 2	5, 1, 2	5, 1, 2	I ₅ , I ₁ , I ₂	2 : 1
D1	1	0	0	-14	-12	0	4	+	4, 4, 1	4, 4, 1	4, 4, 1	I ₄ , I ₄ , I ₁	2 : 2
D2	1	0	0	-194	-1056	0	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I ₂ , I ₂ , I ₂	2 : 1, 3, 4
D3	1	0	0	-3104	-66822	0	2	+	1, 1, 1	1, 1, 1	1, 1, 1	I ₁ , I ₁ , I ₁	2 : 2
D4	1	0	0	-164	-1386	0	2	-	1, 1, 4	1, 1, 4	1, 1, 4	I ₁ , I ₁ , I ₄	2 : 2
583	$N = 583 = 11 \cdot 53$ (3 isogeny classes)												583
A1	0	1	1	6	-5	0	1	-	1, 2	1, 2	1, 2	I ₁ , I ₂	
B1	1	1	0	-358	-3595	0	1	-	4, 3	4, 3	4, 1	I ₄ , I ₃	

TABLE 1: ELLIPTIC CURVES 585A–590A

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
585	$N = 585 = 3^2 \cdot 5 \cdot 13$ (9 isogeny classes)												585
A1	1	-1	1	-218	1432	1	2	-	9, 4, 1	0, 4, 1	2, 2, 1	III*, I ₄ , I ₁	2 : 2
A2	1	-1	1	-3593	83782	1	2	+	9, 2, 2	0, 2, 2	2, 2, 2	III*, I ₂ , I ₂	2 : 1
B1	0	0	1	12	-21	0	3	-	3, 1, 3	0, 1, 3	2, 1, 3	III, I ₁ , I ₃	3 : 2
B2	0	0	1	-378	-2842	0	1	-	9, 3, 1	0, 3, 1	2, 1, 1	III*, I ₃ , I ₁	3 : 1
C1	1	-1	0	-24	-45	0	2	-	3, 4, 1	0, 4, 1	2, 4, 1	III, I ₄ , I ₁	2 : 2
C2	1	-1	0	-399	-2970	0	2	+	3, 2, 2	0, 2, 2	2, 2, 2	III, I ₂ , I ₂	2 : 1
D1	0	0	1	-42	105	1	3	-	3, 3, 1	0, 3, 1	2, 3, 1	III, I ₃ , I ₁	3 : 2
D2	0	0	1	108	560	1	1	-	9, 1, 3	0, 1, 3	2, 1, 3	III*, I ₁ , I ₃	3 : 1
E1	0	0	1	-1713	-28022	0	1	-	13, 1, 3	7, 1, 3	2, 1, 1	I ₇ *, I ₁ , I ₃	
F1	1	-1	0	-990	-11745	1	2	+	10, 1, 1	4, 1, 1	2, 1, 1	I ₄ *, I ₁ , I ₁	2 : 2
F2	1	-1	0	-1035	-10584	1	4	+	14, 2, 2	8, 2, 2	4, 2, 2	I ₈ *, I ₂ , I ₂	2 : 1, 3, 4
F3	1	-1	0	-4680	114075	1	4	+	10, 4, 4	4, 4, 4	4, 2, 4	I ₄ *, I ₄ , I ₄	2 : 2, 5, 6
F4	1	-1	0	1890	-61479	1	2	-	22, 1, 1	16, 1, 1	4, 1, 1	I ₁₆ *, I ₁ , I ₁	2 : 2
F5	1	-1	0	-73125	7629336	1	4	+	8, 8, 2	2, 8, 2	4, 2, 2	I ₂ *, I ₈ , I ₂	2 : 3, 7, 8
F6	1	-1	0	5445	533250	1	2	-	8, 2, 8	2, 2, 8	2, 2, 8	I ₂ *, I ₂ , I ₈	2 : 3
F7	1	-1	0	-1170000	487402461	1	2	+	7, 4, 1	1, 4, 1	4, 2, 1	I ₁ *, I ₄ , I ₁	2 : 5
F8	1	-1	0	-71370	8011575	1	2	-	7, 16, 1	1, 16, 1	2, 2, 1	I ₁ *, I ₁₆ , I ₁	2 : 5
G1	0	0	1	-3	18	1	1	-	7, 1, 1	1, 1, 1	4, 1, 1	I ₁ *, I ₁ , I ₁	
H1	1	-1	0	-9	0	1	2	+	6, 1, 1	0, 1, 1	2, 1, 1	I ₀ *, I ₁ , I ₁	2 : 2
H2	1	-1	0	36	-27	1	2	-	6, 2, 2	0, 2, 2	2, 2, 2	I ₀ *, I ₂ , I ₂	2 : 1
I1	0	0	1	-597	8820	1	1	-	9, 7, 1	3, 7, 1	4, 7, 1	I ₃ *, I ₇ , I ₁	
586	$N = 586 = 2 \cdot 293$ (3 isogeny classes)												586
A1	1	1	0	-1	-3	0	1	-	3, 1	3, 1	1, 1	I ₃ , I ₁	
B1	1	1	1	-18	415	1	1	-	18, 1	18, 1	18, 1	I ₁₈ , I ₁	
C1	1	1	1	-9	7	1	1	-	4, 1	4, 1	4, 1	I ₄ , I ₁	
588	$N = 588 = 2^2 \cdot 3 \cdot 7^2$ (6 isogeny classes)												588
A1	0	-1	0	131	-167	0	1	-	8, 5, 4	0, 5, 0	1, 1, 1	IV*, I ₅ , IV	
B1	0	-1	0	327	666	1	2	-	4, 3, 8	0, 3, 2	3, 1, 4	IV, I ₃ , I ₂ *	2 : 2; 3 : 3
B2	0	-1	0	-1388	6840	1	2	+	8, 6, 7	0, 6, 1	3, 2, 4	IV*, I ₆ , I ₁ *	2 : 1; 3 : 4
B3	0	-1	0	-5553	165894	1	2	-	4, 1, 12	0, 1, 6	1, 1, 4	IV, I ₁ , I ₆ *	2 : 4; 3 : 1
B4	0	-1	0	-89588	10350936	1	2	+	8, 2, 9	0, 2, 3	1, 2, 4	IV*, I ₂ , I ₃ *	2 : 3; 3 : 2
C1	0	-1	0	-9	-6	1	2	+	4, 1, 3	0, 1, 0	3, 1, 2	IV, I ₁ , III	2 : 2
C2	0	-1	0	-44	120	1	2	+	8, 2, 3	0, 2, 0	3, 2, 2	IV*, I ₂ , III	2 : 1
D1	0	1	0	6403	44463	0	1	-	8, 5, 10	0, 5, 0	1, 5, 1	IV*, I ₅ , II*	
E1	0	1	0	-457	2960	0	2	+	4, 1, 9	0, 1, 0	3, 1, 2	IV, I ₁ , III*	2 : 2
E2	0	1	0	-2172	-36828	0	2	+	8, 2, 9	0, 2, 0	3, 2, 2	IV*, I ₂ , III*	2 : 1
F1	0	1	0	-65	804	0	2	-	4, 1, 8	0, 1, 2	1, 1, 4	IV, I ₁ , I ₂ *	2 : 2
F2	0	1	0	-1780	28244	0	2	+	8, 2, 7	0, 2, 1	1, 2, 2	IV*, I ₂ , I ₁ *	2 : 1
590	$N = 590 = 2 \cdot 5 \cdot 59$ (4 isogeny classes)												590
A1	1	0	1	156	176	0	3	-	1, 4, 3	1, 4, 3	1, 2, 3	I ₁ , I ₄ , I ₂	3 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
590	$N = 590 = 2 \cdot 5 \cdot 59$ (continued)												590
B1	1	-1	0	1	13	0	2	-	8, 1, 1	8, 1, 1	2, 1, 1	I_8, I_1, I_1	2 : 2
B2	1	-1	0	-79	285	0	4	+	4, 2, 2	4, 2, 2	2, 2, 2	I_4, I_2, I_2	2 : 1, 3, 4
B3	1	-1	0	-179	-495	0	2	+	2, 1, 4	2, 1, 4	2, 1, 2	I_2, I_1, I_4	2 : 2
B4	1	-1	0	-1259	17513	0	4	+	2, 4, 1	2, 4, 1	2, 4, 1	I_2, I_4, I_1	2 : 2
C1	1	-1	0	1	5	1	1	-	3, 2, 1	3, 2, 1	1, 2, 1	I_3, I_2, I_1	
D1	1	0	0	-350	2500	1	1	-	9, 4, 1	9, 4, 1	9, 4, 1	I_9, I_4, I_1	
591	$N = 591 = 3 \cdot 197$ (1 isogeny class)												591
A1	0	-1	1	-3	2	1	1	+	2, 1	2, 1	2, 1	I_2, I_1	
592	$N = 592 = 2^4 \cdot 37$ (5 isogeny classes)												592
A1	0	1	0	-9	-13	1	1	+	8, 1	0, 1	1, 1	I_0^*, I_1	
B1	0	1	0	-33	-85	0	1	+	8, 1	0, 1	1, 1	I_0^*, I_1	
C1	0	0	0	-16	-16	0	1	+	12, 1	0, 1	1, 1	Π^*, I_1	
D1	0	1	0	-5	-1	1	1	+	8, 1	0, 1	2, 1	I_0^*, I_1	
E1	0	-1	0	-53	-131	1	1	+	12, 1	0, 1	1, 1	Π^*, I_1	3 : 2
E2	0	-1	0	-373	2813	1	1	+	12, 3	0, 3	1, 3	Π^*, I_3	3 : 1, 3
E3	0	-1	0	-29973	2007325	1	1	+	12, 1	0, 1	1, 1	Π^*, I_1	3 : 2
593	$N = 593 = 593$ (2 isogeny classes)												593
A1	1	0	1	-2	1	1	1	-	1	1	1	I_1	
B1	1	0	0	-7	-30	0	2	-	2	2	2	I_2	2 : 2
B2	1	0	0	-12	-17	0	2	+	1	1	1	I_1	2 : 1
594	$N = 594 = 2 \cdot 3^3 \cdot 11$ (8 isogeny classes)												594
A1	1	-1	0	-18	36	1	1	-	4, 5, 1	4, 0, 1	2, 3, 1	I_4, IV, I_1	
B1	1	-1	0	-9	-9	0	1	-	1, 5, 1	1, 0, 1	1, 1, 1	I_1, IV, I_1	
C1	1	-1	0	-4146	103796	0	3	-	5, 9, 1	5, 0, 1	1, 3, 1	I_5, IV^*, I_1	3 : 2
C2	1	-1	0	-3201	151613	0	1	-	15, 11, 3	15, 0, 3	1, 1, 1	I_{15}, Π^*, I_3	3 : 1
D1	1	-1	0	-153	4909	1	1	-	8, 5, 5	8, 0, 5	2, 1, 5	I_8, IV, I_5	
E1	1	-1	1	-1379	-131165	0	1	-	8, 11, 5	8, 0, 5	8, 1, 1	I_8, Π^*, I_5	
F1	1	-1	1	-83	325	0	1	-	1, 11, 1	1, 0, 1	1, 1, 1	I_1, Π^*, I_1	
G1	1	-1	1	-164	-809	0	1	-	4, 11, 1	4, 0, 1	4, 1, 1	I_4, Π^*, I_1	
H1	1	-1	1	-461	-3691	0	1	-	5, 3, 1	5, 0, 1	5, 1, 1	I_5, II, I_1	3 : 2
H2	1	-1	1	-356	-5497	0	3	-	15, 5, 3	15, 0, 3	15, 1, 3	I_{15}, IV, I_3	3 : 1
595	$N = 595 = 5 \cdot 7 \cdot 17$ (3 isogeny classes)												595
A1	0	-1	1	-9996	388876	0	1	-	11, 3, 1	11, 3, 1	1, 1, 1	I_{11}, I_3, I_1	
B1	0	-1	1	434	-9589	0	1	-	5, 7, 1	5, 7, 1	1, 7, 1	I_5, I_7, I_1	
C1	0	-1	1	0	1	0	1	-	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	
598	$N = 598 = 2 \cdot 13 \cdot 23$ (4 isogeny classes)												598
A1	1	-1	0	-112	492	1	2	-	2, 4, 1	2, 4, 1	2, 4, 1	I_2, I_4, I_1	2 : 2
A2	1	-1	0	-1802	29898	1	2	+	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1

TABLE 1: ELLIPTIC CURVES 598C–603F

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
598	$N = 598 = 2 \cdot 13 \cdot 23$ (continued)												598
C1	1	1	1	-14	-27	0	1	-	1, 1, 2	1, 1, 2	1, 1, 2	I_1, I_1, I_2	
D1	1	1	1	4	-1443	1	1	-	17, 1, 2	17, 1, 2	17, 1, 2	I_{17}, I_1, I_2	
600	$N = 600 = 2^3 \cdot 3 \cdot 5^2$ (9 isogeny classes)												600
A1	0	-1	0	-383	3012	1	4	+	4, 2, 7	0, 2, 1	2, 2, 4	III, I_2, I_1^*	2 : 2
A2	0	-1	0	-508	1012	1	4	+	8, 4, 8	0, 4, 2	2, 2, 4	I_1^*, I_4, I_2^*	2 : 1, 3, 4
A3	0	-1	0	-5008	-133988	1	4	+	10, 2, 10	0, 2, 4	2, 2, 4	III^*, I_2, I_4^*	2 : 2, 5, 6
A4	0	-1	0	1992	6012	1	2	-	10, 8, 7	0, 8, 1	2, 2, 4	III^*, I_8, I_1^*	2 : 2
A5	0	-1	0	-80008	-8683988	1	2	+	11, 1, 8	0, 1, 2	1, 1, 4	II^*, I_1, I_2^*	2 : 3
A6	0	-1	0	-2008	-295988	1	2	-	11, 1, 14	0, 1, 8	1, 1, 4	II^*, I_1, I_8^*	2 : 3
B1	0	-1	0	7	-3	1	1	-	8, 1, 2	0, 1, 0	4, 1, 1	I_1^*, I_1, II	
C1	0	-1	0	32	-68	0	2	-	10, 3, 3	0, 3, 0	2, 1, 2	III^*, I_3, III	2 : 2
C2	0	-1	0	-168	-468	0	2	+	11, 6, 3	0, 6, 0	1, 2, 2	II^*, I_6, III	2 : 1
D1	0	1	0	17	38	0	2	-	4, 1, 6	0, 1, 0	2, 1, 2	III, I_1, I_0^*	2 : 2
D2	0	1	0	-108	288	0	4	+	8, 2, 6	0, 2, 0	2, 2, 4	I_1^*, I_2, I_0^*	2 : 1, 3, 4
D3	0	1	0	-608	-5712	0	4	+	10, 4, 6	0, 4, 0	2, 4, 4	III^*, I_4, I_0^*	2 : 2, 5, 6
D4	0	1	0	-1608	24288	0	2	+	10, 1, 6	0, 1, 0	2, 1, 2	III^*, I_1, I_0^*	2 : 2
D5	0	1	0	-9608	-365712	0	2	+	11, 2, 6	0, 2, 0	1, 2, 2	II^*, I_2, I_0^*	2 : 3
D6	0	1	0	392	-21712	0	2	-	11, 8, 6	0, 8, 0	1, 8, 2	II^*, I_8, I_0^*	2 : 3
E1	0	1	0	-233	1563	1	1	-	8, 7, 4	0, 7, 0	4, 7, 3	I_1^*, I_7, IV	
F1	0	-1	0	92	-188	0	4	-	8, 1, 7	0, 1, 1	4, 1, 4	I_1^*, I_1, I_1^*	2 : 2
F2	0	-1	0	-408	-1188	0	4	+	10, 2, 8	0, 2, 2	2, 2, 4	III^*, I_2, I_2^*	2 : 1, 3, 4
F3	0	-1	0	-5408	-151188	0	2	+	11, 4, 7	0, 4, 1	1, 2, 4	II^*, I_4, I_1^*	2 : 2
F4	0	-1	0	-3408	76812	0	2	+	11, 1, 10	0, 1, 4	1, 1, 4	II^*, I_1, I_4^*	2 : 2
G1	0	-1	0	-5833	207037	0	1	-	8, 7, 10	0, 7, 0	2, 1, 1	I_1^*, I_7, II^*	
H1	0	1	0	792	-6912	0	2	-	10, 3, 9	0, 3, 0	2, 3, 2	III^*, I_3, III^*	2 : 2
H2	0	1	0	-4208	-66912	0	2	+	11, 6, 9	0, 6, 0	1, 6, 2	II^*, I_6, III^*	2 : 1
I1	0	1	0	167	-37	0	1	-	8, 1, 8	0, 1, 0	2, 1, 1	I_1^*, I_1, IV^*	
602	$N = 602 = 2 \cdot 7 \cdot 43$ (3 isogeny classes)												602
A1	1	-1	0	121	-4291	0	2	-	8, 5, 2	8, 5, 2	2, 1, 2	I_8, I_5, I_2	2 : 2
A2	1	-1	0	-3319	-69651	0	2	+	4, 10, 1	4, 10, 1	2, 2, 1	I_4, I_{10}, I_1	2 : 1
B1	1	1	0	-22564	1295312	0	1	-	17, 5, 1	17, 5, 1	1, 1, 1	I_{17}, I_5, I_1	
C1	1	-1	0	-1	-1	0	1	-	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	
603	$N = 603 = 3^2 \cdot 67$ (6 isogeny classes)												603
A1	1	-1	0	-3	0	0	2	+	3, 1	0, 1	2, 1	III, I_1	2 : 2
A2	1	-1	0	12	-9	0	2	-	3, 2	0, 2	2, 2	III, I_2	2 : 1
B1	1	-1	1	-29	28	0	2	+	9, 1	0, 1	2, 1	III^*, I_1	2 : 2
B2	1	-1	1	106	136	0	2	-	9, 2	0, 2	2, 2	III^*, I_2	2 : 1
C1	1	-1	1	-7151	-230952	0	1	-	11, 1	5, 1	4, 1	I_5^*, I_1	
D1	0	0	1	15	-23	0	1	-	8, 1	2, 1	2, 1	I_2^*, I_1	
E1	1	-1	0	-9	-54	1	1	-	9, 1	3, 1	2, 1	I_3^*, I_1	

TABLE 1: ELLIPTIC CURVES 605A–610C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
605	$N = 605 = 5 \cdot 11^2$ (3 isogeny classes)												605
A1	1	-1	0	-1414	-44027	1	1	-	5, 8	5, 0	5, 3	I_5, IV^*	
B1	1	-1	1	98	-316	1	4	-	1, 7	1, 1	1, 4	I_1, I_1^*	2 : 2
B2	1	-1	1	-507	-2494	1	4	+	2, 8	2, 2	2, 4	I_2, I_2^*	2 : 1, 3, 4
B3	1	-1	1	-7162	-231426	1	2	+	4, 7	4, 1	4, 2	I_4, I_1^*	2 : 2
B4	1	-1	1	-3532	79786	1	2	+	1, 10	1, 4	1, 4	I_1, I_4^*	2 : 2
C1	1	-1	1	-12	36	1	1	-	5, 2	5, 0	5, 1	I_5, II	
606	$N = 606 = 2 \cdot 3 \cdot 101$ (6 isogeny classes)												606
A1	1	0	1	35	-136	0	2	-	12, 3, 1	12, 3, 1	2, 3, 1	I_{12}, I_3, I_1	2 : 2
A2	1	0	1	-285	-1544	0	4	+	6, 6, 2	6, 6, 2	2, 6, 2	I_6, I_6, I_2	2 : 1, 3, 4
A3	1	0	1	-4325	-109816	0	2	+	3, 12, 1	3, 12, 1	1, 12, 1	I_3, I_{12}, I_1	2 : 2
A4	1	0	1	-1365	17896	0	2	+	3, 3, 4	3, 3, 4	1, 3, 2	I_3, I_3, I_4	2 : 2
B1	1	0	1	4	2	1	1	-	3, 2, 1	3, 2, 1	1, 2, 1	I_3, I_2, I_1	
C1	1	1	1	-33	-87	0	1	-	1, 2, 1	1, 2, 1	1, 2, 1	I_1, I_2, I_1	
D1	1	1	1	-1314	-65361	0	1	-	7, 17, 1	7, 17, 1	7, 1, 1	I_7, I_{17}, I_1	
E1	1	0	0	-120	576	1	1	-	9, 6, 1	9, 6, 1	9, 6, 1	I_9, I_6, I_1	
F1	1	0	0	-90	324	0	5	-	5, 5, 1	5, 5, 1	5, 5, 1	I_5, I_5, I_1	5 : 2
F2	1	0	0	600	-10626	0	1	-	1, 1, 5	1, 1, 5	1, 1, 5	I_1, I_1, I_5	5 : 1
608	$N = 608 = 2^5 \cdot 19$ (6 isogeny classes)												608
A1	0	0	0	-8	-16	1	1	-	12, 1	0, 1	2, 1	III^*, I_1	
B1	0	0	0	-56	4848	0	1	-	12, 5	0, 5	2, 1	III^*, I_5	
C1	0	0	0	5	2	0	1	-	9, 1	0, 1	1, 1	I_0^*, I_1	
D1	0	0	0	-8	16	1	1	-	12, 1	0, 1	2, 1	III^*, I_1	
E1	0	0	0	-56	-4848	1	1	-	12, 5	0, 5	2, 5	III^*, I_5	
F1	0	0	0	5	-2	1	1	-	9, 1	0, 1	2, 1	I_0^*, I_1	
609	$N = 609 = 3 \cdot 7 \cdot 29$ (2 isogeny classes)												609
A1	1	1	0	0	3	1	2	-	1, 2, 1	1, 2, 1	1, 2, 1	I_1, I_2, I_1	2 : 2
A2	1	1	0	-35	66	1	2	+	2, 1, 2	2, 1, 2	2, 1, 2	I_2, I_1, I_2	2 : 1
B1	1	1	1	-784	8720	1	4	-	3, 8, 1	3, 8, 1	1, 8, 1	I_3, I_8, I_1	2 : 2
B2	1	1	1	-12789	551346	1	8	+	6, 4, 2	6, 4, 2	2, 4, 2	I_6, I_4, I_2	2 : 1, 3, 4
B3	1	1	1	-13034	528806	1	4	+	12, 2, 4	12, 2, 4	2, 2, 4	I_{12}, I_2, I_4	2 : 2, 5, 6
B4	1	1	1	-204624	35542050	1	4	+	3, 2, 1	3, 2, 1	1, 2, 1	I_3, I_2, I_1	2 : 2
B5	1	1	1	-42469	-2756140	1	2	+	24, 1, 2	24, 1, 2	2, 1, 2	I_{24}, I_1, I_2	2 : 3
B6	1	1	1	12481	2376092	1	2	-	6, 1, 8	6, 1, 8	2, 1, 8	I_6, I_1, I_8	2 : 3
610	$N = 610 = 2 \cdot 5 \cdot 61$ (3 isogeny classes)												610
A1	1	-1	0	-35	-75	0	1	-	5, 3, 1	5, 3, 1	1, 1, 1	I_5, I_3, I_1	
B1	1	-1	0	-164	848	1	2	+	8, 3, 1	8, 3, 1	2, 3, 1	I_8, I_3, I_1	2 : 2
B2	1	-1	0	-244	0	1	4	+	4, 6, 2	4, 6, 2	2, 6, 2	I_4, I_6, I_2	2 : 1, 3, 4
B3	1	-1	0	-2744	-54500	1	2	+	2, 3, 4	2, 3, 4	2, 3, 4	I_2, I_3, I_4	2 : 2
B4	1	-1	0	976	-732	1	4	-	2, 12, 1	2, 12, 1	2, 12, 1	I_2, I_{12}, I_1	2 : 2
C1	1	1	1	-5	-5	0	2	+	4, 1, 1	4, 1, 1	4, 1, 1	I_4, I_1, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 611A–618G

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
611	$N = 611 = 13 \cdot 47$ (1 isogeny class)												611
A1	0	0	1	-1	1	0	1	-	1, 1	1, 1	1, 1	I_1, I_1	
612	$N = 612 = 2^2 \cdot 3^2 \cdot 17$ (4 isogeny classes)												612
A1	0	0	0	-456	3748	0	3	-	8, 3, 1	0, 0, 1	3, 2, 1	IV^*, III, I_1	3 : 2
A2	0	0	0	-216	7668	0	1	-	8, 9, 3	0, 0, 3	1, 2, 1	IV^*, III^*, I_3	3 : 1
B1	0	0	0	-24	-284	1	3	-	8, 3, 3	0, 0, 3	3, 2, 3	IV^*, III, I_3	3 : 2
B2	0	0	0	-4104	-101196	1	1	-	8, 9, 1	0, 0, 1	1, 2, 1	IV^*, III^*, I_1	3 : 1
C1	0	0	0	-48	196	1	1	-	8, 7, 1	0, 1, 1	3, 4, 1	IV^*, I_1^*, I_1	
D1	0	0	0	-14592	679412	0	1	-	8, 17, 1	0, 11, 1	1, 2, 1	IV^*, I_{11}^*, I_1	
614	$N = 614 = 2 \cdot 307$ (2 isogeny classes)												614
A1	1	-1	1	-61	197	1	1	-	6, 1	6, 1	6, 1	I_6, I_1	
B1	1	0	0	27	1	1	3	-	12, 1	12, 1	12, 1	I_{12}, I_1	3 : 2
B2	1	0	0	-373	-2991	1	1	-	4, 3	4, 3	4, 3	I_4, I_3	3 : 1
615	$N = 615 = 3 \cdot 5 \cdot 41$ (2 isogeny classes)												615
A1	1	1	1	-6	-6	1	2	+	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	2 : 2
A2	1	1	1	19	-16	1	2	-	4, 1, 2	4, 1, 2	2, 1, 2	I_4, I_1, I_2	2 : 1
B1	0	1	1	79	-214	1	1	-	7, 4, 1	7, 4, 1	7, 2, 1	I_7, I_4, I_1	
616	$N = 616 = 2^3 \cdot 7 \cdot 11$ (5 isogeny classes)												616
A1	0	0	0	85	86	1	2	-	10, 3, 2	0, 3, 2	2, 1, 2	III^*, I_3, I_2	2 : 2
A2	0	0	0	-355	702	1	2	+	11, 6, 1	0, 6, 1	1, 2, 1	II^*, I_6, I_1	2 : 1
B1	0	-1	0	3828	95348	0	2	-	8, 5, 6	0, 5, 6	2, 5, 2	I_1^*, I_5, I_6	2 : 2
B2	0	-1	0	-22792	936540	0	2	+	10, 10, 3	0, 10, 3	2, 10, 1	III^*, I_{10}, I_3	2 : 1
C1	0	1	0	-12	-32	0	2	-	8, 1, 2	0, 1, 2	2, 1, 2	I_1^*, I_1, I_2	2 : 2
C2	0	1	0	-232	-1440	0	2	+	10, 2, 1	0, 2, 1	2, 2, 1	III^*, I_2, I_1	2 : 1
D1	0	-1	0	-1	197	1	1	-	8, 2, 3	0, 2, 3	4, 2, 3	I_1^*, I_2, I_3	
E1	0	0	0	-26	-51	1	2	+	4, 1, 1	0, 1, 1	2, 1, 1	III, I_1, I_1	2 : 2
E2	0	0	0	-31	-30	1	4	+	8, 2, 2	0, 2, 2	4, 2, 2	I_1^*, I_2, I_2	2 : 1, 3, 4
E3	0	0	0	-251	1510	1	4	+	10, 4, 1	0, 4, 1	2, 4, 1	III^*, I_4, I_1	2 : 2
E4	0	0	0	109	-226	1	2	-	10, 1, 4	0, 1, 4	2, 1, 2	III^*, I_1, I_4	2 : 2
618	$N = 618 = 2 \cdot 3 \cdot 103$ (7 isogeny classes)												618
A1	1	1	0	2	4	1	1	-	4, 1, 1	4, 1, 1	2, 1, 1	I_4, I_1, I_1	
B1	1	1	0	-2819	-58803	1	1	-	19, 1, 1	19, 1, 1	1, 1, 1	I_{19}, I_1, I_1	
C1	1	0	1	-21	34	1	3	-	1, 3, 1	1, 3, 1	1, 3, 1	I_1, I_3, I_1	3 : 2
C2	1	0	1	54	196	1	1	-	3, 1, 3	3, 1, 3	1, 1, 3	I_3, I_1, I_3	3 : 1
D1	1	0	1	325	-7018	1	3	-	4, 15, 1	4, 15, 1	2, 15, 1	I_4, I_{15}, I_1	3 : 2
D2	1	0	1	-20330	-1118500	1	1	-	12, 5, 3	12, 5, 3	2, 5, 3	I_{12}, I_5, I_3	3 : 1
E1	1	1	1	1	5	1	1	-	5, 1, 1	5, 1, 1	5, 1, 1	I_5, I_1, I_1	
F1	1	0	0	-185	1401	1	1	-	11, 7, 1	11, 7, 1	11, 7, 1	I_{11}, I_7, I_1	

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
620	$N = 620 = 2^2 \cdot 5 \cdot 31$ (3 isogeny classes)												620
A1	0	1	0	-101	359	1	3	-	8, 1, 1	0, 1, 1	3, 1, 1	IV*, I ₁ , I ₁	3 : 2
A2	0	1	0	59	1495	1	1	-	8, 3, 3	0, 3, 3	1, 1, 3	IV*, I ₃ , I ₃	3 : 1
B1	0	0	0	-1052	13129	1	2	+	4, 5, 2	0, 5, 2	3, 5, 2	IV, I ₅ , I ₂	2 : 2
B2	0	0	0	-1207	9006	1	2	+	8, 10, 1	0, 10, 1	3, 10, 1	IV*, I ₁₀ , I ₁	2 : 1
C1	0	0	0	8	4	1	1	-	8, 1, 1	0, 1, 1	3, 1, 1	IV*, I ₁ , I ₁	
621	$N = 621 = 3^3 \cdot 23$ (2 isogeny classes)												621
A1	1	-1	0	-123	548	0	1	+	11, 1	0, 1	1, 1	II*, I ₁	
B1	1	-1	1	-14	-16	1	1	+	5, 1	0, 1	1, 1	IV, I ₁	
622	$N = 622 = 2 \cdot 311$ (1 isogeny class)												622
A1	1	-1	1	8	-5	1	1	-	7, 1	7, 1	7, 1	I ₇ , I ₁	
623	$N = 623 = 7 \cdot 89$ (1 isogeny class)												623
A1	1	1	0	28	157	1	1	-	6, 1	6, 1	6, 1	I ₆ , I ₁	
624	$N = 624 = 2^4 \cdot 3 \cdot 13$ (10 isogeny classes)												624
A1	0	-1	0	-3	6	1	2	-	4, 1, 2	0, 1, 2	1, 1, 2	II, I ₁ , I ₂	2 : 2
A2	0	-1	0	-68	240	1	2	+	8, 2, 1	0, 2, 1	2, 2, 1	I ₀ *, I ₂ , I ₁	2 : 1
B1	0	-1	0	5	-14	1	2	-	4, 3, 2	0, 3, 2	1, 1, 2	II, I ₃ , I ₂	2 : 2
B2	0	-1	0	-60	-144	1	2	+	8, 6, 1	0, 6, 1	2, 2, 1	I ₀ *, I ₆ , I ₁	2 : 1
C1	0	-1	0	-7	-2	0	2	+	4, 4, 1	0, 4, 1	1, 2, 1	II, I ₄ , I ₁	2 : 2
C2	0	-1	0	-52	160	0	4	+	8, 2, 2	0, 2, 2	2, 2, 2	I ₀ *, I ₂ , I ₂	2 : 1, 3, 4
C3	0	-1	0	-832	9520	0	2	+	10, 1, 1	0, 1, 1	2, 1, 1	I ₂ *, I ₁ , I ₁	2 : 2
C4	0	-1	0	8	448	0	4	-	10, 1, 4	0, 1, 4	4, 1, 4	I ₂ *, I ₁ , I ₄	2 : 2
D1	0	1	0	-3	0	0	2	+	4, 2, 1	0, 2, 1	1, 2, 1	II, I ₂ , I ₁	2 : 2
D2	0	1	0	12	12	0	2	-	8, 1, 2	0, 1, 2	2, 1, 2	I ₀ *, I ₁ , I ₂	2 : 1
E1	0	1	0	-651	-6228	0	2	+	4, 10, 3	0, 10, 3	1, 10, 1	II, I ₁₀ , I ₃	2 : 2
E2	0	1	0	564	-25668	0	2	-	8, 5, 6	0, 5, 6	2, 5, 2	I ₀ *, I ₅ , I ₆	2 : 1
F1	0	1	0	-39	-108	1	2	+	4, 2, 1	0, 2, 1	1, 2, 1	II, I ₂ , I ₁	2 : 2
F2	0	1	0	-44	-84	1	4	+	8, 4, 2	0, 4, 2	2, 4, 2	I ₀ *, I ₄ , I ₂	2 : 1, 3, 4
F3	0	1	0	-304	1892	1	4	+	10, 8, 1	0, 8, 1	4, 8, 1	I ₂ *, I ₈ , I ₁	2 : 2
F4	0	1	0	136	-444	1	4	-	10, 2, 4	0, 2, 4	2, 2, 4	I ₂ *, I ₂ , I ₄	2 : 2
G1	0	-1	0	-13	4	1	2	+	4, 6, 1	0, 6, 1	1, 2, 1	II, I ₆ , I ₁	2 : 2; 3 : 3
G2	0	-1	0	-148	-644	1	2	+	8, 3, 2	0, 3, 2	1, 1, 2	I ₀ *, I ₃ , I ₂	2 : 1; 3 : 4
G3	0	-1	0	-733	7888	1	2	+	4, 2, 3	0, 2, 3	1, 2, 3	II, I ₂ , I ₃	2 : 4; 3 : 1
G4	0	-1	0	-748	7564	1	2	+	8, 1, 6	0, 1, 6	1, 1, 6	I ₀ *, I ₁ , I ₆	2 : 3; 3 : 2
H1	0	1	0	8	20	0	2	-	12, 1, 1	0, 1, 1	4, 1, 1	I ₄ *, I ₁ , I ₁	2 : 2
H2	0	1	0	-72	180	0	4	+	12, 2, 2	0, 2, 2	4, 2, 2	I ₄ *, I ₂ , I ₂	2 : 1, 3, 4
H3	0	1	0	-312	-2028	0	2	+	12, 1, 4	0, 1, 4	2, 1, 4	I ₄ *, I ₁ , I ₄	2 : 2
H4	0	1	0	-1112	13908	0	4	+	12, 4, 1	0, 4, 1	4, 4, 1	I ₄ *, I ₄ , I ₁	2 : 2
I1	0	1	0	-312	-44460	0	2	-	28, 5, 1	16, 5, 1	4, 5, 1	I ₂₀ *, I ₅ , I ₁	2 : 2
I2	0	1	0	-20792	-1150380	0	4	+	20, 10, 2	8, 10, 2	4, 10, 2	I ₁₂ *, I ₁₀ , I ₂	2 : 1, 3, 4
I3	0	1	0	-331832	-73684908	0	2	+	16, 5, 4	4, 5, 4	2, 5, 4	I ₄ *, I ₅ , I ₄	2 : 2

TABLE 1: ELLIPTIC CURVES 624J–630D

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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624 **624**
 $N = 624 = 2^4 \cdot 3 \cdot 13$ (continued)

J1	0	1	0	-5	-6	0	2	+	4, 2, 1	0, 2, 1	1, 2, 1	II, I ₂ , I ₁	2 : 2
J2	0	1	0	-20	24	0	2	+	8, 1, 2	0, 1, 2	1, 1, 2	I ₀ [*] , I ₁ , I ₂	2 : 1

626 **626**
 $N = 626 = 2 \cdot 313$ (2 isogeny classes)

A1	1	-1	0	-7	9	1	2	+	2, 1	2, 1	2, 1	I ₂ , I ₁	2 : 2
A2	1	-1	0	-17	-13	1	2	+	1, 2	1, 2	1, 2	I ₁ , I ₂	2 : 1
B1	1	0	1	-2210	39796	0	1	-	19, 1	19, 1	1, 1	I ₁₉ , I ₁	

627 **627**
 $N = 627 = 3 \cdot 11 \cdot 19$ (2 isogeny classes)

A1	0	1	1	-1	-2	0	1	-	1, 1, 1	1, 1, 1	1, 1, 1	I ₁ , I ₁ , I ₁	
B1	0	1	1	-363	-2995	0	3	-	9, 3, 1	9, 3, 1	9, 3, 1	I ₉ , I ₃ , I ₁	3 : 2
B2	0	1	1	-30063	-2016358	0	1	-	3, 1, 3	3, 1, 3	3, 1, 3	I ₃ , I ₁ , I ₃	3 : 1

628 **628**
 $N = 628 = 2^2 \cdot 157$ (1 isogeny class)

A1	0	-1	0	4	8	0	1	-	8, 1	0, 1	1, 1	IV [*] , I ₁	
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629 **629**
 $N = 629 = 17 \cdot 37$ (4 isogeny classes)

A1	1	-1	0	11	-18	1	1	-	3, 1	3, 1	1, 1	I ₃ , I ₁	
B1	0	0	1	-211	1165	0	1	+	2, 3	2, 3	2, 1	I ₂ , I ₃	
C1	0	0	1	-40	48	1	1	+	4, 1	4, 1	4, 1	I ₄ , I ₁	
D1	1	-1	1	-171	1904	1	1	-	1, 5	1, 5	1, 5	I ₁ , I ₅	

630 **630**
 $N = 630 = 2 \cdot 3^2 \cdot 5 \cdot 7$ (10 isogeny classes)

A1	1	-1	0	-105	441	0	6	+	2, 3, 1, 3	2, 0, 1, 3	2, 2, 1, 3	I ₂ , III, I ₁ , I ₃	2 : 2; 3 : 3
A2	1	-1	0	-75	675	0	6	-	1, 3, 2, 6	1, 0, 2, 6	1, 2, 2, 6	I ₁ , III, I ₂ , I ₆	2 : 1; 3 : 4
A3	1	-1	0	-420	-2800	0	2	+	6, 9, 3, 1	6, 0, 3, 1	2, 2, 1, 1	I ₆ , III [*] , I ₃ , I ₁	2 : 4; 3 : 1
A4	1	-1	0	660	-15544	0	2	-	3, 9, 6, 2	3, 0, 6, 2	1, 2, 2, 2	I ₃ , III [*] , I ₆ , I ₂	2 : 3; 3 : 2
B1	1	-1	0	-5124	142160	0	2	+	14, 3, 1, 5	14, 0, 1, 5	2, 2, 1, 1	I ₁₄ , III, I ₁ , I ₅	2 : 2
B2	1	-1	0	-3204	248528	0	2	-	7, 3, 2, 10	7, 0, 2, 10	1, 2, 2, 2	I ₇ , III, I ₂ , I ₁₀	2 : 1
C1	1	-1	0	1890	-24300	0	2	-	16, 10, 2, 1	16, 4, 2, 1	2, 2, 2, 1	I ₁₆ , I ₄ [*] , I ₂ , I ₁	2 : 2
C2	1	-1	0	-9630	-210924	0	4	+	8, 14, 4, 2	8, 8, 4, 2	2, 4, 2, 2	I ₈ , I ₈ [*] , I ₄ , I ₂	2 : 1, 3, 4
C3	1	-1	0	-135630	-19186524	0	2	+	4, 22, 2, 1	4, 16, 2, 1	2, 4, 2, 1	I ₄ , I ₁₆ [*] , I ₂ , I ₁	2 : 2
C4	1	-1	0	-67950	6682500	0	4	+	4, 10, 8, 4	4, 4, 8, 4	2, 4, 2, 2	I ₄ , I ₄ [*] , I ₈ , I ₄	2 : 2, 5, 6
C5	1	-1	0	-1080450	432540000	0	4	+	2, 8, 4, 8	2, 2, 4, 8	2, 4, 2, 2	I ₂ , I ₂ [*] , I ₄ , I ₈	2 : 4, 7, 8
C6	1	-1	0	11430	21304296	0	2	-	2, 8, 16, 2	2, 2, 16, 2	2, 2, 2, 2	I ₂ , I ₂ [*] , I ₁₆ , I ₂	2 : 4
C7	1	-1	0	-17287200	27669604050	0	2	+	1, 7, 2, 4	1, 1, 2, 4	1, 2, 2, 2	I ₁ , I ₁ [*] , I ₂ , I ₄	2 : 5
C8	1	-1	0	-1073700	438205950	0	2	-	1, 7, 2, 16	1, 1, 2, 16	1, 4, 2, 2	I ₁ , I ₁ [*] , I ₂ , I ₁₆	2 : 5
D1	1	-1	0	90	436	1	2	-	8, 7, 1, 2	8, 1, 1, 2	2, 2, 1, 2	I ₈ , I ₁ [*] , I ₁ , I ₂	2 : 2
D2	1	-1	0	-630	4900	1	4	+	4, 8, 2, 4	4, 2, 2, 4	2, 4, 2, 4	I ₄ , I ₂ [*] , I ₂ , I ₄	2 : 1, 3, 4
D3	1	-1	0	-3330	-69080	1	2	+	2, 7, 1, 8	2, 1, 1, 8	2, 4, 1, 8	I ₂ , I ₁ [*] , I ₁ , I ₈	2 : 2
D4	1	-1	0	-9450	355936	1	4	+	2, 10, 4, 2	2, 4, 4, 2	2, 4, 2, 2	I ₂ , I ₄ [*] , I ₄ , I ₂	2 : 2, 5, 6
D5	1	-1	0	-151200	22667386	1	2	+	1, 8, 2, 1	1, 2, 2, 1	1, 2, 2, 1	I ₁ , I ₁ [*] , I ₂ , I ₁	2 : 4

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
630 $N = 630 = 2 \cdot 3^2 \cdot 5 \cdot 7$ (continued) 630													
E1	1	-1	0	21	53	1	2	-	4, 6, 2, 1	4, 0, 2, 1	2, 2, 2, 1	I_4, I_0^*, I_2, I_1	2 : 2
E2	1	-1	0	-159	665	1	4	+	2, 6, 4, 2	2, 0, 4, 2	2, 4, 4, 2	I_2, I_0^*, I_4, I_2	2 : 1, 3, 4
E3	1	-1	0	-789	-7777	1	2	+	1, 6, 8, 1	1, 0, 8, 1	1, 2, 8, 1	I_1, I_0^*, I_8, I_1	2 : 2
E4	1	-1	0	-2409	46115	1	2	+	1, 6, 2, 4	1, 0, 2, 4	1, 2, 2, 2	I_1, I_0^*, I_2, I_4	2 : 2
F1	1	-1	0	-369	1053	0	2	+	12, 9, 1, 1	12, 3, 1, 1	2, 2, 1, 1	I_{12}, I_3^*, I_1, I_1	2 : 2; 3 : 3
F2	1	-1	0	-3249	-69795	0	4	+	6, 12, 2, 2	6, 6, 2, 2	2, 4, 2, 2	I_6, I_6^*, I_2, I_2	2 : 1, 4, 5; 3 : 6
F3	1	-1	0	-24129	1448685	0	6	+	4, 7, 3, 3	4, 1, 3, 3	2, 2, 3, 3	I_4, I_1^*, I_3, I_3	2 : 6; 3 : 1
F4	1	-1	0	-51849	-4531275	0	2	+	3, 9, 1, 4	3, 3, 1, 4	1, 4, 1, 4	I_3, I_3^*, I_1, I_4	2 : 2; 3 : 7
F5	1	-1	0	-729	-177147	0	2	-	3, 18, 4, 1	3, 12, 4, 1	1, 4, 4, 1	I_3, I_{12}^*, I_4, I_1	2 : 2; 3 : 8
F6	1	-1	0	-24309	1426113	0	12	+	2, 8, 6, 6	2, 2, 6, 6	2, 4, 6, 6	I_2, I_2^*, I_6, I_6	2 : 3, 7, 8; 3 : 2
F7	1	-1	0	-58059	-3373137	0	6	+	1, 7, 3, 12	1, 1, 3, 12	1, 4, 3, 12	I_1, I_1^*, I_3, I_{12}	2 : 6; 3 : 4
F8	1	-1	0	6561	4778595	0	6	-	1, 10, 12, 3	1, 4, 12, 3	1, 4, 12, 3	I_1, I_4^*, I_{12}, I_3	2 : 6; 3 : 5
G1	1	-1	1	-46118	-3792203	0	2	+	14, 9, 1, 5	14, 0, 1, 5	14, 2, 1, 1	I_{14}, III^*, I_1, I_5	2 : 2
G2	1	-1	1	-28838	-6681419	0	2	-	7, 9, 2, 10	7, 0, 2, 10	7, 2, 2, 2	I_7, III^*, I_2, I_{10}	2 : 1
H1	1	-1	1	-47	119	0	6	+	6, 3, 3, 1	6, 0, 3, 1	6, 2, 3, 1	I_6, III, I_3, I_1	2 : 2; 3 : 3
H2	1	-1	1	73	551	0	6	-	3, 3, 6, 2	3, 0, 6, 2	3, 2, 6, 2	I_3, III, I_6, I_2	2 : 1; 3 : 4
H3	1	-1	1	-947	-10961	0	2	+	2, 9, 1, 3	2, 0, 1, 3	2, 2, 1, 3	I_2, III^*, I_1, I_3	2 : 4; 3 : 1
H4	1	-1	1	-677	-17549	0	2	-	1, 9, 2, 6	1, 0, 2, 6	1, 2, 2, 6	I_1, III^*, I_2, I_6	2 : 3; 3 : 2
I1	1	-1	1	-4478	-114163	0	2	+	8, 9, 3, 1	8, 3, 3, 1	8, 2, 1, 1	I_8, I_3^*, I_3, I_1	2 : 2; 3 : 3
I2	1	-1	1	-5198	-74419	0	4	+	4, 12, 6, 2	4, 6, 6, 2	4, 4, 2, 2	I_4, I_6^*, I_6, I_2	2 : 1, 4, 5; 3 : 6
I3	1	-1	1	-13253	449597	0	6	+	24, 7, 1, 3	24, 1, 1, 3	24, 2, 1, 3	I_{24}, I_1^*, I_1, I_3	2 : 6; 3 : 1
I4	1	-1	1	-39218	2946557	0	2	+	2, 9, 12, 1	2, 3, 12, 1	2, 4, 2, 1	I_2, I_3^*, I_{12}, I_1	2 : 2; 3 : 7
I5	1	-1	1	17302	-560419	0	2	-	2, 18, 3, 4	2, 12, 3, 4	2, 4, 1, 4	I_2, I_{12}^*, I_3, I_4	2 : 2; 3 : 8
I6	1	-1	1	-197573	33848381	0	12	+	12, 8, 2, 6	12, 2, 2, 6	12, 4, 2, 6	I_{12}, I_2^*, I_2, I_6	2 : 3, 7, 8; 3 : 2
I7	1	-1	1	-3161093	2164026557	0	6	+	6, 7, 4, 3	6, 1, 4, 3	6, 4, 2, 3	I_6, I_1^*, I_4, I_3	2 : 6; 3 : 4
I8	1	-1	1	-183173	38980541	0	6	-	6, 10, 1, 12	6, 4, 1, 12	6, 4, 1, 12	I_6, I_4^*, I_1, I_{12}	2 : 6; 3 : 5
J1	1	-1	1	-32	51	0	4	+	4, 7, 1, 1	4, 1, 1, 1	4, 4, 1, 1	I_4, I_1^*, I_1, I_1	2 : 2
J2	1	-1	1	-212	-1101	0	4	+	2, 8, 2, 2	2, 2, 2, 2	2, 4, 2, 2	I_2, I_2^*, I_2, I_2	2 : 1, 3, 4
J3	1	-1	1	-3362	-74181	0	2	+	1, 10, 1, 1	1, 4, 1, 1	1, 4, 1, 1	I_1, I_4^*, I_1, I_1	2 : 2
J4	1	-1	1	58	-3909	0	2	-	1, 7, 4, 4	1, 1, 4, 4	1, 2, 4, 2	I_1, I_1^*, I_4, I_4	2 : 2
632 $N = 632 = 2^3 \cdot 79$ (1 isogeny class) 632													
A1	0	1	0	-16	16	1	1	+	10, 1	0, 1	2, 1	III^*, I_1	
633 $N = 633 = 3 \cdot 211$ (1 isogeny class) 633													
A1	1	1	1	-17	-70	1	1	-	8, 1	8, 1	2, 1	I_8, I_1	
635 $N = 635 = 5 \cdot 127$ (2 isogeny classes) 635													
A1	0	1	1	5	6	1	3	-	3, 1	3, 1	3, 1	I_3, I_1	3 : 2
A2	0	1	1	-45	-209	1	1	-	1, 3	1, 3	1, 3	I_1, I_3	3 : 1
B1	0	-1	1	-10	16	1	1	-	1, 1	1, 1	1, 1	I_1, I_1	
637 $N = 637 = 7^2 \cdot 13$ (4 isogeny classes) 637													
A1	1	-1	0	-107	454	1	1	-	4, 1	0, 1	1, 1	IV, I_1	7 : 2

TABLE 1: ELLIPTIC CURVES 637B–644B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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637 **637**
 $N = 637 = 7^2 \cdot 13$ (continued)

B1	0	-1	1	-359	-2507	0	1	-	7, 1	1, 1	4, 1	I_1^*, I_1	3 : 2
B2	0	-1	1	621	-13238	0	1	-	9, 3	3, 3	4, 1	I_3^*, I_3	3 : 1, 3
B3	0	-1	1	-5749	415463	0	1	-	15, 1	9, 1	4, 1	I_9^*, I_1	3 : 2
C1	1	-1	0	-5252	-145223	1	1	-	10, 1	0, 1	1, 1	II^*, I_1	7 : 2
C2	1	-1	0	30763	6051758	1	1	-	10, 7	0, 7	1, 7	II^*, I_7	7 : 1
D1	0	0	1	49	-86	1	1	-	7, 1	1, 1	2, 1	I_1^*, I_1	

639 **639**
 $N = 639 = 3^2 \cdot 71$ (1 isogeny class)

A1	1	-1	1	4	-34	1	2	-	8, 1	2, 1	4, 1	I_2^*, I_1	2 : 2
A2	1	-1	1	-131	-520	1	2	+	7, 2	1, 2	4, 2	I_1^*, I_2	2 : 1

640 **640**
 $N = 640 = 2^7 \cdot 5$ (8 isogeny classes)

A1	0	0	0	-13	-18	1	2	+	7, 1	0, 1	1, 1	II, I_1	2 : 2
A2	0	0	0	-8	-32	1	2	-	14, 2	0, 2	2, 2	III^*, I_2	2 : 1
B1	0	0	0	-13	18	1	2	+	7, 1	0, 1	1, 1	II, I_1	2 : 2
B2	0	0	0	-8	32	1	2	-	14, 2	0, 2	2, 2	III^*, I_2	2 : 1
C1	0	0	0	-2	-4	0	2	-	8, 2	0, 2	2, 2	III, I_2	2 : 2
C2	0	0	0	-52	-144	0	2	+	13, 1	0, 1	4, 1	I_2^*, I_1	2 : 1
D1	0	-1	0	-15	-25	0	2	-	8, 4	0, 4	2, 4	III, I_4	2 : 2
D2	0	-1	0	-265	-1575	0	2	+	13, 2	0, 2	4, 2	I_2^*, I_2	2 : 1
E1	0	-1	0	-66	230	0	2	+	7, 2	0, 2	1, 2	II, I_2	2 : 2
E2	0	-1	0	-61	261	0	2	-	14, 4	0, 4	2, 2	III^*, I_4	2 : 1
F1	0	1	0	-66	-230	0	2	+	7, 2	0, 2	1, 2	II, I_2	2 : 2
F2	0	1	0	-61	-261	0	2	-	14, 4	0, 4	2, 2	III^*, I_4	2 : 1
G1	0	0	0	-2	4	1	2	-	8, 2	0, 2	2, 2	III, I_2	2 : 2
G2	0	0	0	-52	144	1	2	+	13, 1	0, 1	2, 1	I_2^*, I_1	2 : 1
H1	0	1	0	-15	25	1	2	-	8, 4	0, 4	2, 4	III, I_4	2 : 2
H2	0	1	0	-265	1575	1	2	+	13, 2	0, 2	2, 2	I_2^*, I_2	2 : 1

642 **642**
 $N = 642 = 2 \cdot 3 \cdot 107$ (3 isogeny classes)

A1	1	1	0	-49	85	0	2	+	10, 3, 1	10, 3, 1	2, 1, 1	I_{10}, I_3, I_1	2 : 2
A2	1	1	0	111	693	0	2	-	5, 6, 2	5, 6, 2	1, 2, 2	I_5, I_6, I_2	2 : 1
B1	1	0	1	140	-790	0	3	-	3, 12, 1	3, 12, 1	1, 12, 1	I_3, I_{12}, I_1	3 : 2
B2	1	0	1	-4315	-109978	0	1	-	9, 4, 3	9, 4, 3	1, 4, 1	I_9, I_4, I_3	3 : 1
C1	1	1	1	79	335	1	1	-	13, 4, 1	13, 4, 1	13, 2, 1	I_{13}, I_4, I_1	

643 **643**
 $N = 643 = 643$ (1 isogeny class)

A1	1	0	0	-4	3	2	1	-	1	1	1	I_1	
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644 **644**
 $N = 644 = 2^2 \cdot 7 \cdot 23$ (2 isogeny classes)

A1	0	1	0	6	-43	1	1	-	4, 4, 1	0, 4, 1	1, 2, 1	IV, I_4, I_1	
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	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
645	$N = 645 = 3 \cdot 5 \cdot 43$ (6 isogeny classes)												
A1	1	1	0	2	7	0	2	−	4, 1, 1	4, 1, 1	2, 1, 1	I_4, I_1, I_1	$2 : 2$
A2	1	1	0	−43	88	0	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	$2 : 1, 3, 4$
A3	1	1	0	−118	−407	0	2	+	1, 1, 4	1, 1, 4	1, 1, 4	I_1, I_1, I_4	$2 : 2$
A4	1	1	0	−688	6667	0	2	+	1, 4, 1	1, 4, 1	1, 2, 1	I_1, I_4, I_1	$2 : 2$
B1	1	1	0	−22	31	0	2	+	3, 2, 1	3, 2, 1	1, 2, 1	I_3, I_2, I_1	$2 : 2$
B2	1	1	0	3	126	0	2	−	6, 1, 2	6, 1, 2	2, 1, 2	I_6, I_1, I_2	$2 : 1$
C1	0	−1	1	−16780	855303	0	1	−	14, 2, 3	14, 2, 3	2, 2, 1	I_{14}, I_2, I_3	
D1	0	−1	1	−18000	−923542	0	1	−	6, 2, 1	6, 2, 1	2, 2, 1	I_6, I_2, I_1	
E1	0	1	1	1815	141239	1	1	−	12, 8, 1	12, 8, 1	12, 8, 1	I_{12}, I_8, I_1	
F1	0	1	1	10	44	1	1	−	6, 2, 1	6, 2, 1	6, 2, 1	I_6, I_2, I_1	
646	$N = 646 = 2 \cdot 17 \cdot 19$ (5 isogeny classes)												
A1	1	−1	0	−125	−507	0	2	+	6, 1, 2	6, 1, 2	2, 1, 2	I_6, I_1, I_2	$2 : 2$
A2	1	−1	0	−85	−867	0	2	−	3, 2, 4	3, 2, 4	1, 2, 4	I_3, I_2, I_4	$2 : 1$
B1	1	1	1	−77	−77	0	2	+	4, 3, 2	4, 3, 2	4, 1, 2	I_4, I_3, I_2	$2 : 2$
B2	1	1	1	303	−229	0	2	−	2, 6, 1	2, 6, 1	2, 2, 1	I_2, I_6, I_1	$2 : 1$
C1	1	0	0	−241	1413	0	2	+	2, 1, 4	2, 1, 4	2, 1, 2	I_2, I_1, I_4	$2 : 2$
C2	1	0	0	−3851	91663	0	2	+	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	$2 : 1$
D1	1	−1	1	−406	3237	1	2	+	12, 1, 2	12, 1, 2	12, 1, 2	I_{12}, I_1, I_2	$2 : 2$
D2	1	−1	1	−6486	202661	1	2	+	6, 2, 1	6, 2, 1	6, 2, 1	I_6, I_2, I_1	$2 : 1$
E1	1	0	0	−153	505	0	6	+	6, 3, 2	6, 3, 2	6, 3, 2	I_6, I_3, I_2	$2 : 2; 3 : 3$
E2	1	0	0	−913	−10287	0	6	+	3, 6, 1	3, 6, 1	3, 6, 1	I_3, I_6, I_1	$2 : 1; 3 : 4$
E3	1	0	0	−4573	−119379	0	2	+	2, 1, 6	2, 1, 6	2, 1, 6	I_2, I_1, I_6	$2 : 4; 3 : 1$
E4	1	0	0	−73163	−7623125	0	2	+	1, 2, 3	1, 2, 3	1, 2, 3	I_1, I_2, I_3	$2 : 3; 3 : 2$
648	$N = 648 = 2^3 \cdot 3^4$ (4 isogeny classes)												
A1	0	0	0	−3	14	1	1	−	10, 4	0, 0	2, 1	III^*, II	
B1	0	0	0	−3	−1	1	1	+	4, 4	0, 0	2, 1	III, II	
C1	0	0	0	−27	−378	0	1	−	10, 10	0, 0	2, 1	III^*, IV^*	
D1	0	0	0	−27	27	1	1	+	4, 10	0, 0	2, 3	III, IV^*	
649	$N = 649 = 11 \cdot 59$ (1 isogeny class)												
A1	1	0	0	−1	4	1	1	−	2, 1	2, 1	2, 1	I_2, I_1	
650	$N = 650 = 2 \cdot 5^2 \cdot 13$ (13 isogeny classes)												
A1	1	−1	0	−167	−259	1	2	+	8, 7, 1	8, 1, 1	2, 2, 1	I_8, I_1^*, I_1	$2 : 2$
A2	1	−1	0	−2167	−38259	1	4	+	4, 8, 2	4, 2, 2	2, 4, 2	I_4, I_2^*, I_2	$2 : 1, 3, 4$
A3	1	−1	0	−34667	−2475759	1	2	+	2, 7, 1	2, 1, 1	2, 2, 1	I_2, I_1^*, I_1	$2 : 2$
A4	1	−1	0	−1667	−56759	1	2	−	2, 10, 4	2, 4, 4	2, 4, 2	I_2, I_4^*, I_4	$2 : 2$
B1	1	1	0	−130	−780	1	1	−	18, 2, 1	18, 0, 1	2, 1, 1	I_{18}, II, I_1	$3 : 2$
B2	1	1	0	−11330	−468940	1	1	−	6, 2, 3	6, 0, 3	2, 1, 1	I_6, II, I_3	$3 : 1$
C1	1	−1	0	−22	46	1	1	−	1, 2, 2	1, 0, 2	1, 1, 2	I_1, II, I_2	
D1	1	0	1	299	22048	0	1	−	7, 10, 2	7, 0, 2	1, 1, 2	I_7, II^*, I_2	
E1	1	0	1	−21026	−1175052	0	2	+	8, 11, 1	8, 5, 1	2, 4, 1	I_8, I_1^*, I_1	$2 : 2$

TABLE 1: ELLIPTIC CURVES 650F–656B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
650	$N = 650 = 2 \cdot 5^2 \cdot 13$ (continued)												650
F1	1	-1	0	-67	341	0	1	-	7, 6, 1	7, 0, 1	1, 1, 1	I_7, I_0^*, I_1	7 : 2
F2	1	-1	0	-5317	-162409	0	1	-	1, 6, 7	1, 0, 7	1, 1, 7	I_1, I_0^*, I_7	7 : 1
G1	1	0	1	-26	48	1	3	-	2, 4, 1	2, 0, 1	2, 3, 1	I_2, IV, I_1	3 : 2
G2	1	0	1	99	248	1	1	-	6, 4, 3	6, 0, 3	2, 1, 3	I_6, IV, I_3	3 : 1
H1	1	1	1	12	31	0	1	-	1, 6, 1	1, 0, 1	1, 1, 1	I_1, I_0^*, I_1	3 : 2
H2	1	1	1	-113	-969	0	1	-	3, 6, 3	3, 0, 3	3, 1, 1	I_3, I_0^*, I_3	3 : 1, 3
H3	1	1	1	-11488	-478719	0	1	-	9, 6, 1	9, 0, 1	9, 1, 1	I_9, I_0^*, I_1	3 : 2
I1	1	1	1	-638	6031	0	1	-	2, 10, 1	2, 0, 1	2, 1, 1	I_2, II^*, I_1	3 : 2
I2	1	1	1	2487	31031	0	1	-	6, 10, 3	6, 0, 3	6, 1, 1	I_6, II^*, I_3	3 : 1
J1	1	1	1	-813	8531	0	2	+	4, 9, 1	4, 3, 1	4, 2, 1	I_4, I_3^*, I_1	2 : 2; 3 : 3
J2	1	1	1	-313	19531	0	2	-	2, 12, 2	2, 6, 2	2, 4, 2	I_2, I_6^*, I_2	2 : 1; 3 : 4
J3	1	1	1	-5188	-140219	0	2	+	12, 7, 3	12, 1, 3	12, 2, 1	I_{12}, I_1^*, I_3	2 : 4; 3 : 1
J4	1	1	1	2812	-524219	0	2	-	6, 8, 6	6, 2, 6	6, 4, 2	I_6, I_2^*, I_6	2 : 3; 3 : 2
K1	1	1	1	12	181	1	1	-	7, 4, 2	7, 0, 2	7, 3, 2	I_7, IV, I_2	
L1	1	0	0	-3263	-90983	0	3	-	18, 8, 1	18, 0, 1	18, 3, 1	I_{18}, IV^*, I_1	3 : 2
L2	1	0	0	-283263	-58050983	0	1	-	6, 8, 3	6, 0, 3	6, 1, 3	I_6, IV^*, I_3	3 : 1
M1	1	-1	1	-555	5197	0	1	-	1, 8, 2	1, 0, 2	1, 1, 2	I_1, IV^*, I_2	
651	$N = 651 = 3 \cdot 7 \cdot 31$ (5 isogeny classes)												651
A1	1	1	0	-5596	-164045	0	2	-	2, 10, 1	2, 10, 1	2, 10, 1	I_2, I_{10}, I_1	2 : 2
A2	1	1	0	-89631	-10365894	0	2	+	4, 5, 2	4, 5, 2	2, 5, 2	I_4, I_5, I_2	2 : 1
B1	1	1	0	-3	0	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
B2	1	1	0	12	15	0	2	-	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1
C1	1	0	1	3	-5	1	2	-	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	2 : 2
C2	1	0	1	-32	-61	1	2	+	4, 1, 2	4, 1, 2	4, 1, 2	I_4, I_1, I_2	2 : 1
D1	1	0	0	36	-81	1	4	-	4, 4, 1	4, 4, 1	4, 4, 1	I_4, I_4, I_1	2 : 2
D2	1	0	0	-209	-816	1	4	+	8, 2, 2	8, 2, 2	8, 2, 2	I_8, I_2, I_2	2 : 1, 3, 4
D3	1	0	0	-3044	-64887	1	2	+	4, 1, 4	4, 1, 4	4, 1, 2	I_4, I_1, I_4	2 : 2
D4	1	0	0	-1294	17195	1	2	+	16, 1, 1	16, 1, 1	16, 1, 1	I_{16}, I_1, I_1	2 : 2
E1	0	1	1	23	-83	0	3	-	9, 1, 1	9, 1, 1	9, 1, 1	I_9, I_1, I_1	3 : 2
E2	0	1	1	-1057	-13610	0	3	-	3, 3, 3	3, 3, 3	3, 3, 3	I_3, I_3, I_3	3 : 1, 3
E3	0	1	1	-85687	-9682913	0	1	-	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	3 : 2
654	$N = 654 = 2 \cdot 3 \cdot 109$ (2 isogeny classes)												654
A1	1	0	1	-174	880	1	1	-	4, 8, 1	4, 8, 1	2, 8, 1	I_4, I_8, I_1	
B1	1	1	1	-56	1145	1	1	-	16, 4, 1	16, 4, 1	16, 2, 1	I_{16}, I_4, I_1	
655	$N = 655 = 5 \cdot 131$ (1 isogeny class)												655
A1	0	0	1	-13	18	2	1	-	2, 1	2, 1	2, 1	I_2, I_1	
656	$N = 656 = 2^4 \cdot 41$ (3 isogeny classes)												656
A1	0	0	0	-11	10	1	2	+	10, 1	0, 1	4, 1	I_2^*, I_1	2 : 2
A2	0	0	0	29	66	1	2	-	11, 2	0, 2	2, 2	I_3^*, I_2	2 : 1
B1	0	1	0	-12	-20	0	2	+	8, 1	0, 1	2, 1	I_8^*, I_1	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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656 $N = 656 = 2^4 \cdot 41$ (continued) **656**

C1	0	-1	0	-24	-16	0	2	+	14, 1	2, 1	4, 1	I_6^*, I_1	2 : 2
C2	0	-1	0	-184	1008	0	2	+	13, 2	1, 2	2, 2	I_5^*, I_2	2 : 1

657 $N = 657 = 3^2 \cdot 73$ (4 isogeny classes) **657**

A1	1	-1	1	-743	7494	0	2	+	16, 1	10, 1	4, 1	I_{10}^*, I_1	2 : 2
A2	1	-1	1	-11678	488634	0	2	+	11, 2	5, 2	2, 2	I_5^*, I_2	2 : 1
B1	0	0	1	-57	-167	0	1	-	7, 1	1, 1	4, 1	I_1^*, I_1	
C1	0	0	1	24	-36	1	1	-	9, 1	3, 1	2, 1	I_3^*, I_1	3 : 2
C2	0	0	1	-246	2043	1	3	-	7, 3	1, 3	2, 3	I_1^*, I_3	3 : 1
D1	1	-1	1	-11	10	1	2	+	6, 1	0, 1	4, 1	I_0^*, I_1	2 : 2
D2	1	-1	1	34	46	1	2	-	6, 2	0, 2	2, 2	I_0^*, I_2	2 : 1

658 $N = 658 = 2 \cdot 7 \cdot 47$ (6 isogeny classes) **658**

A1	1	1	0	-117008	18214144	0	1	-	30, 7, 1	30, 7, 1	2, 1, 1	I_{30}, I_7, I_1	
B1	1	1	0	-9	5	0	2	+	6, 1, 1	6, 1, 1	2, 1, 1	I_6, I_1, I_1	2 : 2
B2	1	1	0	-49	-147	0	2	+	3, 2, 2	3, 2, 2	1, 2, 2	I_3, I_2, I_2	2 : 1
C1	1	0	1	3	12	0	3	-	2, 3, 1	2, 3, 1	2, 3, 1	I_2, I_3, I_1	3 : 2
C2	1	0	1	-32	-338	0	1	-	6, 1, 3	6, 1, 3	2, 1, 1	I_6, I_1, I_3	3 : 1
D1	1	1	1	24	-23	1	1	-	12, 1, 1	12, 1, 1	12, 1, 1	I_{12}, I_1, I_1	
E1	1	-1	1	1668	19775	1	2	-	22, 4, 1	22, 4, 1	22, 4, 1	I_{22}, I_4, I_1	2 : 2
E2	1	-1	1	-8572	183615	1	2	+	11, 8, 2	11, 8, 2	11, 8, 2	I_{11}, I_8, I_2	2 : 1
F1	1	-1	1	-18	33	1	1	-	4, 1, 1	4, 1, 1	4, 1, 1	I_4, I_1, I_1	

659 $N = 659 = 659$ (2 isogeny classes) **659**

A1	1	1	0	-79	-306	1	1	+	1	1	1	I_1	
B1	0	1	1	-372	2641	0	1	-	1	1	1	I_1	

660 $N = 660 = 2^2 \cdot 3 \cdot 5 \cdot 11$ (4 isogeny classes) **660**

A1	0	-1	0	-21	-54	0	2	-	4, 2, 4, 1	0, 2, 4, 1	1, 2, 2, 1	IV, I_2, I_4, I_1	2 : 2
A2	0	-1	0	-396	-2904	0	2	+	8, 1, 2, 2	0, 1, 2, 2	1, 1, 2, 2	IV^*, I_1, I_2, I_2	2 : 1
B1	0	-1	0	-1	10	1	2	-	4, 2, 2, 1	0, 2, 2, 1	3, 2, 2, 1	IV, I_2, I_2, I_1	2 : 2
B2	0	-1	0	-76	280	1	2	+	8, 1, 1, 2	0, 1, 1, 2	3, 1, 1, 2	IV^*, I_1, I_1, I_2	2 : 1
C1	0	1	0	-41	120	1	6	-	4, 6, 2, 1	0, 6, 2, 1	3, 6, 2, 1	IV, I_6, I_2, I_1	2 : 2; 3 : 3
C2	0	1	0	-716	7140	1	6	+	8, 3, 1, 2	0, 3, 1, 2	3, 3, 1, 2	IV^*, I_3, I_1, I_2	2 : 1; 3 : 4
C3	0	1	0	319	-1356	1	2	-	4, 2, 6, 3	0, 2, 6, 3	1, 2, 2, 1	IV, I_2, I_6, I_3	2 : 4; 3 : 1
C4	0	1	0	-1556	-13356	1	2	+	8, 1, 3, 6	0, 1, 3, 6	1, 1, 1, 2	IV^*, I_1, I_3, I_6	2 : 3; 3 : 2
D1	0	1	0	219	-4500	0	6	-	4, 6, 4, 3	0, 6, 4, 3	3, 6, 2, 3	IV, I_6, I_4, I_3	2 : 2; 3 : 3
D2	0	1	0	-3156	-63900	0	6	+	8, 3, 2, 6	0, 3, 2, 6	3, 3, 2, 6	IV^*, I_3, I_2, I_6	2 : 1; 3 : 4
D3	0	1	0	-15621	-757296	0	2	-	4, 2, 12, 1	0, 2, 12, 1	1, 2, 2, 1	IV, I_2, I_{12}, I_1	2 : 4; 3 : 1
D4	0	1	0	-249996	-48194796	0	2	+	8, 1, 6, 2	0, 1, 6, 2	1, 1, 2, 2	IV^*, I_1, I_6, I_2	2 : 3; 3 : 2

662 $N = 662 = 2 \cdot 331$ (1 isogeny class) **662**

199

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
663	$N = 663 = 3 \cdot 13 \cdot 17$ (3 isogeny classes)												663
A1	1	1	0	-262	-1745	0	2	+	6, 2, 1	6, 2, 1	2, 2, 1	I_6, I_2, I_1	2 : 2
A2	1	1	0	-327	-900	0	2	+	12, 1, 2	12, 1, 2	2, 1, 2	I_{12}, I_1, I_2	2 : 1
B1	1	1	1	-539	4592	1	4	+	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	2 : 2
B2	1	1	1	-544	4496	1	8	+	4, 4, 2	4, 4, 2	2, 4, 2	I_4, I_4, I_2	2 : 1, 3, 4
B3	1	1	1	-1389	-14094	1	4	+	8, 2, 4	8, 2, 4	2, 2, 4	I_8, I_2, I_4	2 : 2, 5, 6
B4	1	1	1	221	17042	1	4	-	2, 8, 1	2, 8, 1	2, 8, 1	I_2, I_8, I_1	2 : 2
B5	1	1	1	-20174	-1111138	1	2	+	16, 1, 2	16, 1, 2	2, 1, 2	I_{16}, I_1, I_2	2 : 3
B6	1	1	1	3876	-89910	1	2	-	4, 1, 8	4, 1, 8	2, 1, 8	I_4, I_1, I_8	2 : 3
C1	1	0	0	-33	-72	1	2	+	4, 2, 1	4, 2, 1	4, 2, 1	I_4, I_2, I_1	2 : 2
C2	1	0	0	-98	279	1	2	+	8, 1, 2	8, 1, 2	8, 1, 2	I_8, I_1, I_2	2 : 1
664	$N = 664 = 2^3 \cdot 83$ (3 isogeny classes)												664
A1	0	0	0	-7	10	2	1	-	8, 1	0, 1	4, 1	I_1^*, I_1	
B1	0	1	0	1	2	1	1	-	4, 1	0, 1	2, 1	III, I_1	
C1	0	-1	0	-3	4	1	1	-	4, 1	0, 1	2, 1	III, I_1	
665	$N = 665 = 5 \cdot 7 \cdot 19$ (5 isogeny classes)												665
A1	1	1	1	64	258	1	1	-	3, 5, 1	3, 5, 1	1, 5, 1	I_3, I_5, I_1	
B1	1	-1	0	-14	-17	1	2	+	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	2 : 2
B2	1	-1	0	-19	0	1	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1, 3, 4
B3	1	-1	0	-194	1085	1	4	+	1, 1, 4	1, 1, 4	1, 1, 4	I_1, I_1, I_4	2 : 2
B4	1	-1	0	76	-57	1	2	-	4, 4, 1	4, 4, 1	4, 2, 1	I_4, I_4, I_1	2 : 2
C1	1	1	0	-2	1	1	1	-	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	
D1	0	-1	1	-210	6798	1	5	-	5, 5, 2	5, 5, 2	5, 5, 2	I_5, I_5, I_2	5 : 2
D2	0	-1	1	-16660	-1081562	1	1	-	1, 1, 10	1, 1, 10	1, 1, 2	I_1, I_1, I_{10}	5 : 1
E1	0	0	1	-97	-368	0	1	-	1, 1, 2	1, 1, 2	1, 1, 2	I_1, I_1, I_2	
666	$N = 666 = 2 \cdot 3^2 \cdot 37$ (7 isogeny classes)												666
A1	1	-1	0	-231	-1315	0	1	-	5, 9, 1	5, 0, 1	1, 2, 1	I_5, III^*, I_1	
B1	1	-1	0	153	-4685	0	1	-	1, 17, 1	1, 11, 1	1, 2, 1	I_1, I_{11}^*, I_1	
C1	1	-1	0	18	108	1	1	-	3, 9, 1	3, 3, 1	1, 4, 1	I_3, I_3^*, I_1	3 : 2
C2	1	-1	0	-1332	19062	1	3	-	1, 7, 3	1, 1, 3	1, 4, 3	I_1, I_1^*, I_3	3 : 1
D1	1	-1	1	-26	57	1	1	-	5, 3, 1	5, 0, 1	5, 2, 1	I_5, III, I_1	
E1	1	-1	1	13	1235	1	1	-	13, 7, 1	13, 1, 1	13, 4, 1	I_{13}, I_1^*, I_1	
F1	1	-1	1	139	141	0	4	-	8, 9, 1	8, 3, 1	8, 4, 1	I_8, I_3^*, I_1	2 : 2
F2	1	-1	1	-581	1581	0	4	+	4, 12, 2	4, 6, 2	4, 4, 2	I_4, I_6^*, I_2	2 : 1, 3, 4
F3	1	-1	1	-5441	-151995	0	2	+	2, 9, 4	2, 3, 4	2, 2, 4	I_2, I_3^*, I_4	2 : 2
F4	1	-1	1	-7241	238677	0	2	+	2, 18, 1	2, 12, 1	2, 4, 1	I_2, I_{12}^*, I_1	2 : 2
G1	1	-1	1	-1640858	-808607271	0	1	-	23, 15, 1	23, 9, 1	23, 2, 1	I_{23}, I_9^*, I_1	
669	$N = 669 = 3 \cdot 223$ (1 isogeny class)												669
A1	1	1	0	-1	-2	1	1	-	1, 1	1, 1	1, 1	I_1, I_1	
670	$N = 670 = 2 \cdot 5 \cdot 67$ (4 isogeny classes)												670

TABLE 1: ELLIPTIC CURVES 670B–675C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies	
670	$N = 670 = 2 \cdot 5 \cdot 67$ (continued)													670
B1	1	0	1	2	6	1	3	−	1, 3, 1	1, 3, 1	1, 3, 1	I_1, I_3, I_1	3 : 2	
B2	1	0	1	−23	−174	1	1	−	3, 1, 3	3, 1, 3	1, 1, 3	I_3, I_1, I_3	3 : 1	
C1	1	−1	1	−13	21	1	1	−	5, 1, 1	5, 1, 1	5, 1, 1	I_5, I_1, I_1		
D1	1	0	0	44	−624	1	1	−	19, 1, 1	19, 1, 1	19, 1, 1	I_{19}, I_1, I_1		
672	$N = 672 = 2^5 \cdot 3 \cdot 7$ (8 isogeny classes)													672
A1	0	−1	0	2	4	1	2	−	6, 1, 2	0, 1, 2	2, 1, 2	III, I_1, I_2	2 : 2	
A2	0	−1	0	−33	81	1	2	+	12, 2, 1	0, 2, 1	4, 2, 1	I_3^*, I_2, I_1	2 : 1	
B1	0	1	0	210	1764	1	2	−	6, 5, 6	0, 5, 6	2, 5, 6	III, I_5, I_6	2 : 2	
B2	0	1	0	−1505	17199	1	2	+	12, 10, 3	0, 10, 3	4, 10, 3	I_3^*, I_{10}, I_3	2 : 1	
C1	0	−1	0	−22	40	0	4	+	6, 4, 2	0, 4, 2	2, 2, 2	III, I_4, I_2	2 : 2, 3, 4	
C2	0	−1	0	−112	−392	0	2	+	9, 2, 4	0, 2, 4	1, 2, 2	I_0^*, I_2, I_4	2 : 1	
C3	0	−1	0	−337	2497	0	4	+	12, 2, 1	0, 2, 1	4, 2, 1	I_3^*, I_2, I_1	2 : 1	
C4	0	−1	0	48	180	0	2	−	9, 8, 1	0, 8, 1	2, 2, 1	I_0^*, I_8, I_1	2 : 1	
D1	0	−1	0	210	−1764	0	2	−	6, 5, 6	0, 5, 6	2, 1, 2	III, I_5, I_6	2 : 2	
D2	0	−1	0	−1505	−17199	0	2	+	12, 10, 3	0, 10, 3	2, 2, 1	I_3^*, I_{10}, I_3	2 : 1	
E1	0	−1	0	−14	24	1	4	+	6, 2, 2	0, 2, 2	2, 2, 2	III, I_2, I_2	2 : 2, 3, 4	
E2	0	−1	0	−49	−95	1	2	+	12, 4, 1	0, 4, 1	4, 2, 1	I_3^*, I_4, I_1	2 : 1	
E3	0	−1	0	−224	1368	1	2	+	9, 1, 1	0, 1, 1	1, 1, 1	I_0^*, I_1, I_1	2 : 1	
E4	0	−1	0	16	84	1	4	−	9, 1, 4	0, 1, 4	2, 1, 4	I_0^*, I_1, I_4	2 : 1	
F1	0	1	0	−14	−24	1	4	+	6, 2, 2	0, 2, 2	2, 2, 2	III, I_2, I_2	2 : 2, 3, 4	
F2	0	1	0	−224	−1368	1	2	+	9, 1, 1	0, 1, 1	2, 1, 1	I_0^*, I_1, I_1	2 : 1	
F3	0	1	0	−49	95	1	4	+	12, 4, 1	0, 4, 1	4, 4, 1	I_3^*, I_4, I_1	2 : 1	
F4	0	1	0	16	−84	1	2	−	9, 1, 4	0, 1, 4	1, 1, 2	I_0^*, I_1, I_4	2 : 1	
G1	0	1	0	2	−4	0	2	−	6, 1, 2	0, 1, 2	2, 1, 2	III, I_1, I_2	2 : 2	
G2	0	1	0	−33	−81	0	2	+	12, 2, 1	0, 2, 1	2, 2, 1	I_3^*, I_2, I_1	2 : 1	
H1	0	1	0	−22	−40	0	4	+	6, 4, 2	0, 4, 2	2, 4, 2	III, I_4, I_2	2 : 2, 3, 4	
H2	0	1	0	−337	−2497	0	2	+	12, 2, 1	0, 2, 1	4, 2, 1	I_3^*, I_2, I_1	2 : 1	
H3	0	1	0	−112	392	0	4	+	9, 2, 4	0, 2, 4	2, 2, 4	I_0^*, I_2, I_4	2 : 1	
H4	0	1	0	48	−180	0	2	−	9, 8, 1	0, 8, 1	1, 8, 1	I_0^*, I_8, I_1	2 : 1	
674	$N = 674 = 2 \cdot 337$ (3 isogeny classes)													674
A1	1	0	1	3	0	1	1	−	3, 1	3, 1	1, 1	I_3, I_1		
B1	1	−1	1	−6	5	1	2	+	4, 1	4, 1	4, 1	I_4, I_1	2 : 2	
B2	1	−1	1	14	21	1	2	−	2, 2	2, 2	2, 2	I_2, I_2	2 : 1	
C1	1	−1	1	2064	18771	1	1	−	31, 1	31, 1	31, 1	I_{31}, I_1		
675	$N = 675 = 3^3 \cdot 5^2$ (9 isogeny classes)													675
A1	0	0	1	0	31	1	1	−	3, 6	0, 0	1, 2	II, I_0^*	3 : 2, 3	
A2	0	0	1	0	−844	1	1	−	9, 6	0, 0	1, 2	IV^*, I_0^*	3 : 1, 4	
A3	0	0	1	−750	7906	1	1	−	5, 6	0, 0	3, 2	IV, I_0^*	3 : 1	
A4	0	0	1	−6750	−213469	1	1	−	11, 6	0, 0	1, 2	II^*, I_0^*	3 : 2	
B1	1	−1	1	−5	2	1	1	+	5, 2	0, 0	3, 1	IV, II		
C1	0	0	1	0	6	0	3	−	3, 4	0, 0	1, 3	II, IV	3 : 2	

TABLE 1: ELLIPTIC CURVES 675D–680C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
675	$N = 675 = 3^3 \cdot 5^2$ (continued)												675
D1	1	-1	1	-1055	-3428	0	1	+	11, 8	0, 0	1, 1	II^*, IV^*	
E1	0	0	1	0	781	0	1	-	3, 10	0, 0	1, 1	II, II^*	3 : 2
E2	0	0	1	0	-21094	0	1	-	9, 10	0, 0	3, 1	IV^*, II^*	3 : 1
F1	1	-1	0	-42	-19	0	1	+	11, 2	0, 0	1, 1	II^*, II	
G1	0	0	1	-75	531	0	1	-	5, 8	0, 2	1, 2	IV, I_2^*	
H1	0	0	1	-675	-14344	0	1	-	11, 8	0, 2	1, 2	$\text{II}^*, \text{I}_2^*$	
I1	1	-1	0	-117	166	1	1	+	5, 8	0, 0	1, 3	IV, IV^*	
676	$N = 676 = 2^2 \cdot 13^2$ (5 isogeny classes)												676
A1	0	0	0	-676	-6591	0	2	+	4, 7	0, 1	3, 2	IV, I_1^*	2 : 2
A2	0	0	0	169	-21970	0	2	-	8, 8	0, 2	3, 4	$\text{IV}^*, \text{I}_2^*$	2 : 1
B1	0	1	0	-4	-12	0	1	-	8, 2	0, 0	1, 1	IV^*, II	3 : 2
B2	0	1	0	-524	-4796	0	1	-	8, 2	0, 0	3, 1	IV^*, II	3 : 1
C1	0	1	0	-732	-23516	0	3	-	8, 8	0, 0	3, 3	IV^*, IV^*	3 : 2
C2	0	1	0	-88612	-10182444	0	1	-	8, 8	0, 0	1, 3	IV^*, IV^*	3 : 1
D1	0	0	0	-169	845	0	1	+	4, 4	0, 0	1, 1	IV, IV	
E1	0	0	0	-28561	1856465	0	1	+	4, 10	0, 0	3, 1	IV, II^*	
677	$N = 677 = 677$ (1 isogeny class)												677
A1	1	1	1	2	0	1	1	-	1	1	1	I_1	
678	$N = 678 = 2 \cdot 3 \cdot 113$ (6 isogeny classes)												678
A1	1	1	0	-12	12	1	1	-	2, 1, 1	2, 1, 1	2, 1, 1	$\text{I}_2, \text{I}_1, \text{I}_1$	
B1	1	0	1	6	-20	1	1	-	6, 3, 1	6, 3, 1	2, 3, 1	$\text{I}_6, \text{I}_3, \text{I}_1$	
C1	1	1	1	-148	-427	1	2	+	14, 4, 1	14, 4, 1	14, 2, 1	$\text{I}_{14}, \text{I}_4, \text{I}_1$	2 : 2
C2	1	1	1	492	-2475	1	2	-	7, 8, 2	7, 8, 2	7, 2, 2	$\text{I}_7, \text{I}_8, \text{I}_2$	2 : 1
D1	1	0	0	-1661	26097	0	7	-	14, 7, 1	14, 7, 1	14, 7, 1	$\text{I}_{14}, \text{I}_7, \text{I}_1$	7 : 2
D2	1	0	0	-7121	-2567403	0	1	-	2, 1, 7	2, 1, 7	2, 1, 7	$\text{I}_2, \text{I}_1, \text{I}_7$	7 : 1
E1	1	0	0	-192	1008	0	4	+	4, 4, 1	4, 4, 1	4, 4, 1	$\text{I}_4, \text{I}_4, \text{I}_1$	2 : 2
E2	1	0	0	-212	780	0	4	+	2, 8, 2	2, 8, 2	2, 8, 2	$\text{I}_2, \text{I}_8, \text{I}_2$	2 : 1, 3, 4
E3	1	0	0	-1342	-18430	0	2	+	1, 16, 1	1, 16, 1	1, 16, 1	$\text{I}_1, \text{I}_{16}, \text{I}_1$	2 : 2
E4	1	0	0	598	5478	0	2	-	1, 4, 4	1, 4, 4	1, 4, 4	$\text{I}_1, \text{I}_4, \text{I}_4$	2 : 2
F1	1	0	0	-190	-1024	0	2	+	2, 4, 1	2, 4, 1	2, 4, 1	$\text{I}_2, \text{I}_4, \text{I}_1$	2 : 2
F2	1	0	0	-180	-1134	0	2	-	1, 8, 2	1, 8, 2	1, 8, 2	$\text{I}_1, \text{I}_8, \text{I}_2$	2 : 1
680	$N = 680 = 2^3 \cdot 5 \cdot 17$ (3 isogeny classes)												680
A1	0	0	0	-143	658	1	4	+	8, 2, 1	0, 2, 1	4, 2, 1	$\text{I}_1^*, \text{I}_2, \text{I}_1$	2 : 2
A2	0	0	0	-163	462	1	4	+	10, 4, 2	0, 4, 2	2, 2, 2	$\text{III}^*, \text{I}_4, \text{I}_2$	2 : 1, 3, 4
A3	0	0	0	-1163	-14938	1	2	+	11, 2, 4	0, 2, 4	1, 2, 4	$\text{II}^*, \text{I}_2, \text{I}_4$	2 : 2
A4	0	0	0	517	3318	1	2	-	11, 8, 1	0, 8, 1	1, 2, 1	$\text{II}^*, \text{I}_8, \text{I}_1$	2 : 2
B1	0	-1	0	0	-20	0	1	-	11, 1, 1	0, 1, 1	1, 1, 1	$\text{II}^*, \text{I}_1, \text{I}_1$	
C1	0	-1	0	-3540	-79900	0	2	+	8, 4, 1	0, 4, 1	4, 4, 1	$\text{I}^*, \text{I}_4, \text{I}_1$	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
681	$N = 681 = 3 \cdot 227$ (5 isogeny classes)												681
A1	0	-1	1	-13	24	1	1	-	4, 1	4, 1	2, 1	I_4, I_1	
B1	1	1	0	-1154	-15345	0	4	+	10, 2	10, 2	2, 2	I_{10}, I_2	$2 : 2, 3, 4$
B2	1	1	0	-1149	-15480	0	2	+	5, 1	5, 1	1, 1	I_5, I_1	$2 : 1$
B3	1	1	0	-2369	20862	0	4	+	5, 4	5, 4	1, 4	I_5, I_4	$2 : 1$
B4	1	1	0	-19	-42812	0	2	-	20, 1	20, 1	2, 1	I_{20}, I_1	$2 : 1$
C1	0	-1	1	0	2	2	1	-	2, 1	2, 1	2, 1	I_2, I_1	
D1	0	1	1	-431	-3592	0	1	-	4, 1	4, 1	4, 1	I_4, I_1	
E1	0	1	1	-179	881	1	1	-	10, 1	10, 1	10, 1	I_{10}, I_1	
682	$N = 682 = 2 \cdot 11 \cdot 31$ (2 isogeny classes)												682
A1	1	0	0	-33	73	1	3	-	9, 1, 1	9, 1, 1	9, 1, 1	I_9, I_1, I_1	$3 : 2$
A2	1	0	0	167	225	1	3	-	3, 3, 3	3, 3, 3	3, 1, 3	I_3, I_3, I_3	$3 : 1, 3$
A3	1	0	0	-2003	-39269	1	1	-	1, 9, 1	1, 9, 1	1, 1, 1	I_1, I_9, I_1	$3 : 2$
B1	1	-1	1	359	-6663	1	1	-	19, 3, 1	19, 3, 1	19, 3, 1	I_{19}, I_3, I_1	
684	$N = 684 = 2^2 \cdot 3^2 \cdot 19$ (3 isogeny classes)												684
A1	0	0	0	-192	1028	1	1	-	8, 6, 1	0, 0, 1	3, 2, 1	IV^*, I_0^*, I_1	
B1	0	0	0	24	-511	1	2	-	4, 9, 2	0, 3, 2	3, 4, 2	IV, I_3^*, I_2	$2 : 2$
B2	0	0	0	-831	-8890	1	2	+	8, 12, 1	0, 6, 1	3, 4, 1	IV^*, I_6^*, I_1	$2 : 1$
C1	0	0	0	24	-268	0	1	-	8, 8, 1	0, 2, 1	1, 2, 1	IV^*, I_2^*, I_1	
685	$N = 685 = 5 \cdot 137$ (1 isogeny class)												685
A1	1	-1	0	-5	6	1	1	-	1, 1	1, 1	1, 1	I_1, I_1	
688	$N = 688 = 2^4 \cdot 43$ (3 isogeny classes)												688
A1	0	0	0	4	-4	1	1	-	8, 1	0, 1	1, 1	I_0^*, I_1	
B1	0	-1	0	-13	-15	0	1	-	8, 1	0, 1	2, 1	I_0^*, I_1	$3 : 2$
B2	0	-1	0	67	-79	0	1	-	8, 3	0, 3	2, 1	I_0^*, I_3	$3 : 1$
C1	0	-1	0	-5	-19	1	1	-	12, 1	0, 1	1, 1	II^*, I_1	
689	$N = 689 = 13 \cdot 53$ (1 isogeny class)												689
A1	1	0	0	-14	19	1	2	+	1, 1	1, 1	1, 1	I_1, I_1	$2 : 2$
A2	1	0	0	-9	34	1	2	-	2, 2	2, 2	2, 2	I_2, I_2	$2 : 1$
690	$N = 690 = 2 \cdot 3 \cdot 5 \cdot 23$ (11 isogeny classes)												690
A1	1	1	0	172	-1968	1	2	-	14, 2, 4, 1	14, 2, 4, 1	2, 2, 2, 1	I_{14}, I_2, I_4, I_1	$2 : 2$
A2	1	1	0	-1748	-25392	1	2	+	7, 1, 8, 2	7, 1, 8, 2	1, 1, 2, 2	I_7, I_1, I_8, I_2	$2 : 1$
B1	1	1	0	167	-347	0	2	-	6, 7, 1, 2	6, 7, 1, 2	2, 1, 1, 2	I_6, I_7, I_1, I_2	$2 : 2$
B2	1	1	0	-753	-3843	0	2	+	3, 14, 2, 1	3, 14, 2, 1	1, 2, 2, 1	I_3, I_{14}, I_2, I_1	$2 : 1$
C1	1	1	0	-22777	-90852059	0	2	-	10, 18, 8, 1	10, 18, 8, 1	2, 2, 8, 1	I_{10}, I_{18}, I_8, I_1	$2 : 2$
C2	1	1	0	-3172057	-2148591611	0	2	+	5, 9, 16, 2	5, 9, 16, 2	1, 1, 16, 2	I_5, I_9, I_{16}, I_2	$2 : 1$
D1	1	1	0	-12	-36	0	2	-	2, 3, 1, 2	2, 3, 1, 2	2, 1, 1, 2	I_2, I_3, I_1, I_2	$2 : 2$

TABLE 1: ELLIPTIC CURVES 690E–696B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
690	$N = 690 = 2 \cdot 3 \cdot 5 \cdot 23$ (continued)												690
E1	1	0	1	-604	-5734	1	2	+	12, 5, 1, 1	12, 5, 1, 1	2, 5, 1, 1	I_{12}, I_5, I_1, I_1	2 : 2
E2	1	0	1	-924	922	1	4	+	6, 10, 2, 2	6, 10, 2, 2	2, 10, 2, 2	I_6, I_{10}, I_2, I_2	2 : 1, 3, 4
E3	1	0	1	-10644	420826	1	2	+	3, 5, 4, 4	3, 5, 4, 4	1, 5, 2, 4	I_3, I_5, I_4, I_4	2 : 2
E4	1	0	1	3676	8282	1	2	-	3, 20, 1, 1	3, 20, 1, 1	1, 20, 1, 1	I_3, I_{20}, I_1, I_1	2 : 2
F1	1	0	1	-13	8	0	2	+	8, 1, 1, 1	8, 1, 1, 1	2, 1, 1, 1	I_8, I_1, I_1, I_1	2 : 2
F2	1	0	1	-93	-344	0	4	+	4, 2, 2, 2	4, 2, 2, 2	2, 2, 2, 2	I_4, I_2, I_2, I_2	2 : 1, 3, 4
F3	1	0	1	-1473	-21872	0	2	+	2, 1, 4, 1	2, 1, 4, 1	2, 1, 4, 1	I_2, I_1, I_4, I_1	2 : 2
F4	1	0	1	7	-1024	0	4	-	2, 4, 1, 4	2, 4, 1, 4	2, 4, 1, 4	I_2, I_4, I_1, I_4	2 : 2
G1	1	1	1	-4491	-207687	0	4	-	28, 4, 2, 1	28, 4, 2, 1	28, 2, 2, 1	I_{28}, I_4, I_2, I_1	2 : 2
G2	1	1	1	-86411	-9808711	0	4	+	14, 8, 4, 2	14, 8, 4, 2	14, 2, 2, 2	I_{14}, I_8, I_4, I_2	2 : 1, 3, 4
G3	1	1	1	-1382411	-626186311	0	2	+	7, 4, 2, 4	7, 4, 2, 4	7, 2, 2, 2	I_7, I_4, I_2, I_4	2 : 2
G4	1	1	1	-101131	-6258247	0	2	+	7, 16, 8, 1	7, 16, 8, 1	7, 2, 2, 1	I_7, I_{16}, I_8, I_1	2 : 2
H1	1	1	1	4	29	1	2	-	6, 2, 2, 1	6, 2, 2, 1	6, 2, 2, 1	I_6, I_2, I_2, I_1	2 : 2
H2	1	1	1	-116	413	1	2	+	3, 1, 4, 2	3, 1, 4, 2	3, 1, 2, 2	I_3, I_1, I_4, I_2	2 : 1
I1	1	0	0	134	-604	0	2	-	6, 1, 5, 2	6, 1, 5, 2	6, 1, 1, 2	I_6, I_1, I_5, I_2	2 : 2
I2	1	0	0	-786	-5940	0	2	+	3, 2, 10, 1	3, 2, 10, 1	3, 2, 2, 1	I_3, I_2, I_{10}, I_1	2 : 1
J1	1	0	0	-245	-1503	0	2	-	10, 1, 1, 2	10, 1, 1, 2	10, 1, 1, 2	I_{10}, I_1, I_1, I_2	2 : 2
J2	1	0	0	-3925	-94975	0	2	+	5, 2, 2, 1	5, 2, 2, 1	5, 2, 2, 1	I_5, I_2, I_2, I_1	2 : 1
K1	1	0	0	-420	3600	0	8	-	8, 8, 2, 1	8, 8, 2, 1	8, 8, 2, 1	I_8, I_8, I_2, I_1	2 : 2
K2	1	0	0	-6900	220032	0	8	+	4, 4, 4, 2	4, 4, 4, 2	4, 4, 4, 2	I_4, I_4, I_4, I_2	2 : 1, 3, 4
K3	1	0	0	-7080	207900	0	4	+	2, 2, 8, 4	2, 2, 8, 4	2, 2, 8, 2	I_2, I_2, I_8, I_4	2 : 2, 5, 6
K4	1	0	0	-110400	14109732	0	4	+	2, 2, 2, 1	2, 2, 2, 1	2, 2, 2, 1	I_2, I_2, I_2, I_1	2 : 2
K5	1	0	0	-25830	-1370850	0	2	+	1, 1, 4, 8	1, 1, 4, 8	1, 1, 4, 2	I_1, I_1, I_4, I_8	2 : 3
K6	1	0	0	8790	1010922	0	2	-	1, 1, 16, 2	1, 1, 16, 2	1, 1, 16, 2	I_1, I_1, I_{16}, I_2	2 : 3
692	$N = 692 = 2^2 \cdot 173$ (1 isogeny class)												692
A1	0	1	0	-52	180	0	2	-	8, 2	0, 2	1, 2	IV^*, I_2	2 : 2
A2	0	1	0	-57	148	0	2	+	4, 1	0, 1	1, 1	IV, I_1	2 : 1
693	$N = 693 = 3^2 \cdot 7 \cdot 11$ (4 isogeny classes)												693
A1	1	-1	1	31	-264	0	2	-	6, 3, 2	0, 3, 2	2, 1, 2	I_0^*, I_3, I_2	2 : 2
A2	1	-1	1	-464	-3432	0	2	+	6, 6, 1	0, 6, 1	2, 2, 1	I_0^*, I_6, I_1	2 : 1
B1	0	0	1	18	-7	1	1	-	6, 2, 1	0, 2, 1	1, 2, 1	I_0^*, I_2, I_1	
C1	0	0	1	-804	-8775	0	1	-	6, 2, 1	0, 2, 1	1, 2, 1	I_0^*, I_2, I_1	3 : 2
C2	0	0	1	-444	-16650	0	3	-	6, 6, 3	0, 6, 3	1, 6, 3	I_0^*, I_6, I_3	3 : 1, 3
C3	0	0	1	3966	430965	0	3	-	6, 2, 9	0, 2, 9	1, 2, 9	I_0^*, I_2, I_9	3 : 2
D1	1	-1	0	-306	-1985	0	2	+	7, 2, 1	1, 2, 1	4, 2, 1	I_1^*, I_2, I_1	2 : 2
D2	1	-1	0	-351	-1328	0	4	+	8, 4, 2	2, 4, 2	4, 4, 2	I_2^*, I_4, I_2	2 : 1, 3, 4
D3	1	-1	0	-2556	49387	0	4	+	10, 2, 4	4, 2, 4	4, 2, 4	I_4^*, I_2, I_4	2 : 2, 5, 6
D4	1	-1	0	1134	-10535	0	2	-	7, 8, 1	1, 8, 1	2, 8, 1	I_1^*, I_8, I_1	2 : 2
D5	1	-1	0	-40671	3167194	0	2	+	14, 1, 2	8, 1, 2	4, 1, 2	I_8^*, I_1, I_2	2 : 3
D6	1	-1	0	279	150880	0	2	-	8, 1, 8	2, 1, 8	2, 1, 8	I_2^*, I_1, I_8	2 : 3
696	$N = 696 = 2^3 \cdot 3 \cdot 29$ (7 isogeny classes)												696
A1	0	-1	0	-88	349	1	1	-	4, 3, 1	0, 3, 1	2, 1, 1	III, I_3, I_1	

696	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
$N = 696 = 2^3 \cdot 3 \cdot 29$ (continued)													
C1	0	1	0	12	9	1	1	−	4, 5, 1	0, 5, 1	2, 5, 1	III, I ₅ , I ₁	
D1	0	−1	0	−5920	177388	0	1	−	11, 5, 3	0, 5, 3	1, 1, 1	II*, I ₅ , I ₃	
E1	0	−1	0	−36	−87	0	1	−	4, 1, 3	0, 1, 3	2, 1, 1	III, I ₁ , I ₃	
F1	0	−1	0	56	−1415	1	1	−	4, 7, 3	0, 7, 3	2, 1, 3	III, I ₇ , I ₃	
G1	0	1	0	−4	5	1	1	−	4, 3, 1	0, 3, 1	2, 3, 1	III, I ₃ , I ₁	
$N = 699 = 3 \cdot 233$ (1 isogeny class)													
A1	0	1	1	−10	−17	0	1	−	3, 1	3, 1	3, 1	I ₃ , I ₁	
$N = 700 = 2^2 \cdot 5^2 \cdot 7$ (10 isogeny classes)													
A1	0	−1	0	−133	−2863	0	1	−	8, 9, 1	0, 3, 1	1, 2, 1	IV*, I ₃ , I ₁	3 : 2
A2	0	−1	0	−20133	−1092863	0	1	−	8, 7, 3	0, 1, 3	3, 2, 1	IV*, I ₁ , I ₃	3 : 1
B1	0	−1	0	2	−3	0	1	−	4, 2, 1	0, 0, 1	1, 1, 1	IV, II, I ₁	3 : 2
B2	0	−1	0	−98	−343	0	1	−	4, 2, 3	0, 0, 3	3, 1, 1	IV, II, I ₃	3 : 1
C1	0	0	0	−5	5	1	1	−	4, 2, 1	0, 0, 1	3, 1, 1	IV, II, I ₁	
D1	0	0	0	800	26500	1	1	−	8, 7, 5	0, 1, 5	3, 4, 5	IV*, I ₁ , I ₅	
E1	0	0	0	−2000	−34375	1	2	+	4, 9, 2	0, 0, 2	3, 2, 2	IV, III*, I ₂	2 : 2
E2	0	0	0	−1375	−56250	1	2	−	8, 9, 4	0, 0, 4	3, 2, 2	IV*, III*, I ₄	2 : 1
F1	0	0	0	−125	625	1	1	−	4, 8, 1	0, 0, 1	1, 3, 1	IV, IV*, I ₁	
G1	0	0	0	−40	100	1	1	−	8, 3, 1	0, 0, 1	3, 2, 1	IV*, III, I ₁	
H1	0	0	0	−80	−275	0	2	+	4, 3, 2	0, 0, 2	1, 2, 2	IV, III, I ₂	2 : 2
H2	0	0	0	−55	−450	0	2	−	8, 3, 4	0, 0, 4	1, 2, 4	IV*, III, I ₄	2 : 1
I1	0	1	0	42	−287	0	3	−	4, 8, 1	0, 0, 1	3, 3, 1	IV, IV*, I ₁	3 : 2
I2	0	1	0	−2458	−47787	0	1	−	4, 8, 3	0, 0, 3	1, 1, 3	IV, IV*, I ₃	3 : 1
J1	0	0	0	−1000	12500	0	1	−	8, 9, 1	0, 0, 1	1, 2, 1	IV*, III*, I ₁	
$N = 701 = 701$ (1 isogeny class)													
A1	0	−1	1	−2	1	0	1	+	1	1	1	I ₁	
$N = 702 = 2 \cdot 3^3 \cdot 13$ (16 isogeny classes)													
A1	1	−1	0	−9	−19	1	1	−	5, 3, 2	5, 0, 2	1, 1, 2	I ₅ , II, I ₂	
B1	1	−1	0	−3	−1	1	1	+	1, 3, 1	1, 0, 1	1, 1, 1	I ₁ , II, I ₁	
C1	1	−1	0	39	35	0	1	−	1, 11, 1	1, 0, 1	1, 1, 1	I ₁ , II*, I ₁	
D1	1	−1	0	−366	−2476	0	1	+	7, 11, 1	7, 0, 1	1, 1, 1	I ₇ , II*, I ₁	
E1	1	−1	0	−5826	173076	0	3	−	9, 3, 6	9, 0, 6	1, 1, 6	I ₉ , II, I ₆	3 : 2, 3
E2	1	−1	0	11919	881693	0	1	−	27, 9, 2	27, 0, 2	1, 1, 2	I ₂₇ , IV*, I ₂	3 : 1
E3	1	−1	0	−472266	125037036	0	3	−	3, 5, 2	3, 0, 2	1, 3, 2	I ₃ , IV, I ₂	3 : 1
F1	1	−1	0	−648	9536	0	1	−	11, 3, 5	11, 0, 5	1, 1, 1	I ₁₁ , II, I ₅	
G1	1	−1	0	−165	533	0	1	+	19, 3, 1	19, 0, 1	1, 1, 1	I ₁₉ , II, I ₁	
H1	1	−1	0	−132	618	1	3	+	1, 3, 1	1, 0, 1	1, 1, 1	I ₁ , II, I ₁	3 : 2
H2	1	−1	0	−177	197	1	3	+	3, 9, 3	3, 0, 3	1, 3, 3	I ₃ , IV*, I ₃	3 : 1, 3
H3	1	−1	0	−8952	−323776	1	1	+	9, 11, 1	9, 0, 1	1, 1, 1	I ₉ , II*, I ₁	3 : 2
I1	1	−1	1	−29	55	0	1	+	1, 9, 1	1, 0, 1	1, 1, 1	I ₁ , IV*, I ₁	

TABLE 1: ELLIPTIC CURVES 702K–705E

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies	
702	$N = 702 = 2 \cdot 3^3 \cdot 13$ (continued)													702
K1	1	-1	1	-41	105	1	1	+	7, 5, 1	7, 0, 1	7, 3, 1	I_7, IV, I_1		
L1	1	-1	1	-83	595	1	1	-	5, 9, 2	5, 0, 2	5, 3, 2	I_5, IV^*, I_2		
M1	1	-1	1	-1487	-12905	1	1	+	19, 9, 1	19, 0, 1	19, 3, 1	I_{19}, IV^*, I_1		
N1	1	-1	1	-20	-1	0	3	+	3, 3, 3	3, 0, 3	3, 1, 3	I_3, II, I_3	3 : 2, 3	
N2	1	-1	1	-1190	-15497	0	1	+	1, 9, 1	1, 0, 1	1, 3, 1	I_1, IV^*, I_1	3 : 1	
N3	1	-1	1	-995	12323	0	3	+	9, 5, 1	9, 0, 1	9, 1, 1	I_9, IV, I_1	3 : 1	
O1	1	-1	1	4	-3	0	1	-	1, 5, 1	1, 0, 1	1, 1, 1	I_1, IV, I_1		
P1	1	-1	1	1324	-33097	0	3	-	27, 3, 2	27, 0, 2	27, 1, 2	I_{27}, II, I_2	3 : 2	
P2	1	-1	1	-52436	-4620617	0	3	-	9, 9, 6	9, 0, 6	9, 3, 6	I_9, IV^*, I_6	3 : 1, 3	
P3	1	-1	1	-4250396	-3371749577	0	1	-	3, 11, 2	3, 0, 2	3, 1, 2	I_3, II^*, I_2	3 : 2	
703	$N = 703 = 19 \cdot 37$ (2 isogeny classes)													703
A1	0	0	1	-736	1057	0	1	+	2, 5	2, 5	2, 1	I_2, I_5		
B1	0	0	1	1	-8	1	1	-	1, 2	1, 2	1, 2	I_1, I_2		
704	$N = 704 = 2^6 \cdot 11$ (12 isogeny classes)													704
A1	0	1	0	-1	1	1	1	-	6, 1	0, 1	1, 1	II, I_1	5 : 2	
A2	0	1	0	-41	-199	1	1	-	6, 5	0, 5	1, 1	II, I_5	5 : 1, 3	
A3	0	1	0	-31281	-2139919	1	1	-	6, 1	0, 1	1, 1	II, I_1	5 : 2	
B1	0	-1	0	1	1	1	1	-	6, 1	0, 1	1, 1	II, I_1		
C1	0	1	0	1	-1	0	1	-	6, 1	0, 1	1, 1	II, I_1		
D1	0	-1	0	11	-19	0	1	-	14, 1	0, 1	1, 1	II^*, I_1	3 : 2	
D2	0	-1	0	-309	-2003	0	1	-	14, 3	0, 3	1, 3	II^*, I_3	3 : 1	
E1	0	0	0	-16	32	0	1	-	14, 1	0, 1	1, 1	II^*, I_1		
F1	0	1	0	11	19	0	1	-	14, 1	0, 1	1, 1	II^*, I_1	3 : 2	
F2	0	1	0	-309	2003	0	1	-	14, 3	0, 3	1, 1	II^*, I_3	3 : 1	
G1	0	-1	0	-11	-11	0	1	-	6, 1	0, 1	1, 1	II, I_1		
H1	0	0	0	2	14	0	1	-	6, 3	0, 3	1, 1	II, I_3		
I1	0	0	0	-16	-32	0	1	-	14, 1	0, 1	1, 1	II^*, I_1		
J1	0	1	0	-11	11	1	1	-	6, 1	0, 1	1, 1	II, I_1		
K1	0	-1	0	-1	-1	1	1	-	6, 1	0, 1	1, 1	II, I_1	5 : 2	
K2	0	-1	0	-41	199	1	1	-	6, 5	0, 5	1, 5	II, I_5	5 : 1, 3	
K3	0	-1	0	-31281	2139919	1	1	-	6, 1	0, 1	1, 1	II, I_1	5 : 2	
L1	0	0	0	2	-14	1	1	-	6, 3	0, 3	1, 3	II, I_3		
705	$N = 705 = 3 \cdot 5 \cdot 47$ (6 isogeny classes)													705
A1	0	-1	1	-5781	175862	1	1	-	14, 5, 1	14, 5, 1	2, 1, 1	I_{14}, I_5, I_1		
B1	1	1	1	-120	42282	1	1	-	3, 3, 5	3, 3, 5	1, 3, 5	I_3, I_3, I_5		
C1	0	1	1	9	20	0	3	-	6, 1, 1	6, 1, 1	6, 1, 1	I_6, I_1, I_1	3 : 2	
C2	0	1	1	-81	-619	0	1	-	2, 3, 3	2, 3, 3	2, 1, 1	I_2, I_3, I_3	3 : 1	
D1	1	0	1	6	1	1	1	-	1, 3, 1	1, 3, 1	1, 1, 1	I_1, I_3, I_1		

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
705	$N = 705 = 3 \cdot 5 \cdot 47$ (continued)												705
F1	1	0	1	-368	2681	0	2	+	1, 3, 1	1, 3, 1	1, 3, 1	I_1, I_3, I_1	2 : 2
F2	1	0	1	-373	2603	0	4	+	2, 6, 2	2, 6, 2	2, 6, 2	I_2, I_6, I_2	2 : 1, 3, 4
F3	1	0	1	-1078	-10369	0	2	+	1, 12, 1	1, 12, 1	1, 12, 1	I_1, I_{12}, I_1	2 : 2
F4	1	0	1	252	10603	0	4	-	4, 3, 4	4, 3, 4	4, 3, 4	I_4, I_3, I_4	2 : 2
706	$N = 706 = 2 \cdot 353$ (4 isogeny classes)												706
A1	1	1	0	1	-1	1	1	-	1, 1	1, 1	1, 1	I_1, I_1	
B1	1	-1	1	-118	2693	1	1	-	23, 1	23, 1	23, 1	I_{23}, I_1	
C1	1	-1	1	-7	-5	1	2	+	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
C2	1	-1	1	3	-25	1	2	-	1, 2	1, 2	1, 2	I_1, I_2	2 : 1
D1	1	0	0	-18	4	1	2	+	10, 1	10, 1	10, 1	I_{10}, I_1	2 : 2
D2	1	0	0	-178	-924	1	2	+	5, 2	5, 2	5, 2	I_5, I_2	2 : 1
707	$N = 707 = 7 \cdot 101$ (1 isogeny class)												707
A1	0	1	1	-12	12	2	1	+	2, 1	2, 1	2, 1	I_2, I_1	
708	$N = 708 = 2^2 \cdot 3 \cdot 59$ (1 isogeny class)												708
A1	0	-1	0	11	34	0	2	-	4, 6, 1	0, 6, 1	1, 2, 1	IV, I_6, I_1	2 : 2
A2	0	-1	0	-124	520	0	2	+	8, 3, 2	0, 3, 2	1, 1, 2	IV^*, I_3, I_2	2 : 1
709	$N = 709 = 709$ (1 isogeny class)												709
A1	0	-1	1	-2	0	2	1	+	1	1	1	I_1	
710	$N = 710 = 2 \cdot 5 \cdot 71$ (4 isogeny classes)												710
A1	1	1	0	-27	-59	1	1	+	3, 4, 1	3, 4, 1	1, 4, 1	I_3, I_4, I_1	
B1	1	1	1	-416	3009	1	1	+	17, 2, 1	17, 2, 1	17, 2, 1	I_{17}, I_2, I_1	
C1	1	1	1	-70	195	1	1	+	7, 2, 1	7, 2, 1	7, 2, 1	I_7, I_2, I_1	
D1	1	1	1	-1105	11727	0	5	+	5, 10, 1	5, 10, 1	5, 10, 1	I_5, I_{10}, I_1	5 : 2
D2	1	1	1	-181355	-29801973	0	1	+	1, 2, 5	1, 2, 5	1, 2, 5	I_1, I_2, I_5	5 : 1
711	$N = 711 = 3^2 \cdot 79$ (3 isogeny classes)												711
A1	1	-1	0	3	-2	1	1	-	3, 1	0, 1	2, 1	III, I_1	
B1	1	-1	1	25	28	1	1	-	9, 1	0, 1	2, 1	III^*, I_1	
C1	1	-1	0	-18	-23	0	1	+	6, 1	0, 1	1, 1	I_0^*, I_1	
712	$N = 712 = 2^3 \cdot 89$ (1 isogeny class)												712
A1	0	1	0	-32	-80	0	2	+	10, 1	0, 1	2, 1	III^*, I_1	2 : 2
A2	0	1	0	-72	112	0	2	+	11, 2	0, 2	1, 2	II^*, I_2	2 : 1
713	$N = 713 = 23 \cdot 31$ (1 isogeny class)												713
A1	1	0	1	-1	1	1	1	-	1, 1	1, 1	1, 1	I_1, I_1	
714	$N = 714 = 2 \cdot 3 \cdot 7 \cdot 17$ (9 isogeny classes)												714
A1	1	1	0	-3334	81940	1	2	-	14, 8, 3, 1	14, 8, 3, 1	2, 2, 1, 1	I_{14}, I_8, I_3, I_1	2 : 2
A2	1	1	0	-55174	4965268	1	2	+	7, 4, 6, 2	7, 4, 6, 2	1, 2, 2, 2	I_7, I_4, I_6, I_2	2 : 1

TABLE 1: ELLIPTIC CURVES 714C–720D

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
714	$N = 714 = 2 \cdot 3 \cdot 7 \cdot 17$ (continued)												714
C1	1	1	0	-14597	-686643	0	1	-	17, 3, 5, 1	17, 3, 5, 1	1, 1, 5, 1	I_{17}, I_3, I_5, I_1	
D1	1	1	0	-21	45	1	2	-	6, 4, 1, 1	6, 4, 1, 1	2, 2, 1, 1	I_6, I_4, I_1, I_1	2 : 2
D2	1	1	0	-381	2709	1	2	+	3, 2, 2, 2	3, 2, 2, 2	1, 2, 2, 2	I_3, I_2, I_2, I_2	2 : 1
E1	1	1	1	-2204	-41731	0	1	-	7, 3, 1, 5	7, 3, 1, 5	7, 1, 1, 1	I_7, I_3, I_1, I_5	
F1	1	1	1	1	101	1	4	-	12, 2, 1, 1	12, 2, 1, 1	12, 2, 1, 1	I_{12}, I_2, I_1, I_1	2 : 2
F2	1	1	1	-319	2021	1	4	+	6, 4, 2, 2	6, 4, 2, 2	6, 2, 2, 2	I_6, I_4, I_2, I_2	2 : 1, 3, 4
F3	1	1	1	-679	-3883	1	2	+	3, 2, 4, 4	3, 2, 4, 4	3, 2, 2, 4	I_3, I_2, I_4, I_4	2 : 2
F4	1	1	1	-5079	137205	1	2	+	3, 8, 1, 1	3, 8, 1, 1	3, 2, 1, 1	I_3, I_8, I_1, I_1	2 : 2
G1	1	1	1	-70244	7127525	0	8	+	24, 4, 4, 1	24, 4, 4, 1	24, 2, 4, 1	I_{24}, I_4, I_4, I_1	2 : 2
G2	1	1	1	-90724	2605541	0	8	+	12, 8, 8, 2	12, 8, 8, 2	12, 2, 8, 2	I_{12}, I_8, I_8, I_2	2 : 1, 3, 4
G3	1	1	1	-859044	-304722459	0	4	+	6, 16, 4, 4	6, 16, 4, 4	6, 2, 4, 4	I_6, I_{16}, I_4, I_4	2 : 2, 5, 6
G4	1	1	1	349916	20936165	0	4	-	6, 4, 16, 1	6, 4, 16, 1	6, 2, 16, 1	I_6, I_4, I_{16}, I_1	2 : 2
G5	1	1	1	-13718604	-19563199515	0	2	+	3, 8, 2, 8	3, 8, 2, 8	3, 2, 2, 8	I_3, I_8, I_2, I_8	2 : 3
G6	1	1	1	-292604	-699871003	0	2	-	3, 32, 2, 2	3, 32, 2, 2	3, 2, 2, 2	I_3, I_{32}, I_2, I_2	2 : 3
H1	1	1	1	1	-1	0	1	-	1, 1, 1, 1	1, 1, 1, 1	1, 1, 1, 1	I_1, I_1, I_1, I_1	
I1	1	0	0	108	11664	0	9	-	9, 9, 3, 1	9, 9, 3, 1	9, 9, 3, 1	I_9, I_9, I_3, I_1	3 : 2
I2	1	0	0	-972	-315144	0	3	-	3, 3, 9, 3	3, 3, 9, 3	3, 3, 9, 1	I_3, I_3, I_9, I_3	3 : 1, 3
I3	1	0	0	-381702	-90803346	0	1	-	1, 1, 3, 9	1, 1, 3, 9	1, 1, 3, 1	I_1, I_1, I_3, I_9	3 : 2
715	$N = 715 = 5 \cdot 11 \cdot 13$ (2 isogeny classes)												715
A1	0	1	1	-5	6	1	3	-	3, 1, 1	3, 1, 1	3, 1, 1	I_3, I_1, I_1	3 : 2
A2	0	1	1	45	-129	1	1	-	1, 3, 3	1, 3, 3	1, 1, 3	I_1, I_3, I_3	3 : 1
B1	0	0	1	43	-2088	1	1	-	7, 1, 3	7, 1, 3	7, 1, 3	I_7, I_1, I_3	
718	$N = 718 = 2 \cdot 359$ (3 isogeny classes)												718
A1	1	-1	0	-17	-163	0	1	-	15, 1	15, 1	1, 1	I_{15}, I_1	
B1	1	0	1	-5	0	2	1	+	4, 1	4, 1	2, 1	I_4, I_1	
C1	1	-1	1	-514	4609	1	1	+	12, 1	12, 1	12, 1	I_{12}, I_1	
720	$N = 720 = 2^4 \cdot 3^2 \cdot 5$ (10 isogeny classes)												720
A1	0	0	0	-3	18	1	2	-	10, 3, 1	0, 0, 1	4, 2, 1	I_2^*, III, I_1	2 : 2
A2	0	0	0	-123	522	1	2	+	11, 3, 2	0, 0, 2	4, 2, 2	I_3^*, III, I_2	2 : 1
B1	0	0	0	-27	-486	0	2	-	10, 9, 1	0, 0, 1	4, 2, 1	I_2^*, III^*, I_1	2 : 2
B2	0	0	0	-1107	-14094	0	2	+	11, 9, 2	0, 0, 2	2, 2, 2	I_3^*, III^*, I_2	2 : 1
C1	0	0	0	-138	623	0	2	+	4, 8, 1	0, 2, 1	1, 2, 1	II, I_2^*, I_1	2 : 2
C2	0	0	0	-183	182	0	4	+	8, 10, 2	0, 4, 2	2, 4, 2	I_0^*, I_4^*, I_2	2 : 1, 3, 4
C3	0	0	0	-1803	-29302	0	4	+	10, 8, 4	0, 2, 4	4, 4, 2	I_2^*, I_2^*, I_4	2 : 2, 5, 6
C4	0	0	0	717	1442	0	2	-	10, 14, 1	0, 8, 1	2, 4, 1	I_2^*, I_8^*, I_1	2 : 2
C5	0	0	0	-28803	-1881502	0	2	+	11, 7, 2	0, 1, 2	2, 4, 2	I_3^*, I_1^*, I_2	2 : 3
C6	0	0	0	-723	-64078	0	2	-	11, 7, 8	0, 1, 8	4, 2, 2	I_3^*, I_1^*, I_8	2 : 3
D1	0	0	0	-18	27	0	2	+	4, 6, 1	0, 0, 1	1, 2, 1	II, I_0^*, I_1	2 : 2
D2	0	0	0	-63	-162	0	4	+	8, 6, 2	0, 0, 2	2, 4, 2	I_0^*, I_0^*, I_2	2 : 1, 3, 4
D3	0	0	0	-963	-11502	0	2	+	10, 6, 1	0, 0, 1	4, 2, 1	I_2^*, I_2^*, I_1	2 : 2

720	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies	720
$N = 720 = 2^4 \cdot 3^2 \cdot 5$ (continued)														
E1	0	0	0	33	-34	1	2	-	8, 7, 1	0, 1, 1	2, 2, 1	I_0^*, I_1^*, I_1	2 : 2	
E2	0	0	0	-147	-286	1	4	+	10, 8, 2	0, 2, 2	4, 4, 2	I_2^*, I_2^*, I_2	2 : 1, 3, 4	
E3	0	0	0	-1947	-33046	1	2	+	11, 10, 1	0, 4, 1	2, 4, 1	I_3^*, I_4^*, I_1	2 : 2	
E4	0	0	0	-1227	16346	1	4	+	11, 7, 4	0, 1, 4	4, 4, 4	I_3^*, I_1^*, I_4	2 : 2	
F1	0	0	0	-123	-598	0	2	-	18, 3, 1	6, 0, 1	4, 2, 1	I_{10}^*, III, I_1	2 : 2; 3 : 3	
F2	0	0	0	-2043	-35542	0	2	+	15, 3, 2	3, 0, 2	2, 2, 2	I_7^*, III, I_2	2 : 1; 3 : 4	
F3	0	0	0	837	2538	0	2	-	14, 9, 3	2, 0, 3	4, 2, 1	I_6^*, III^*, I_3	2 : 4; 3 : 1	
F4	0	0	0	-3483	20682	0	2	+	13, 9, 6	1, 0, 6	2, 2, 2	I_5^*, III^*, I_6	2 : 3; 3 : 2	
G1	0	0	0	93	-94	1	2	-	14, 3, 3	2, 0, 3	4, 2, 3	I_6^*, III, I_3	2 : 2; 3 : 3	
G2	0	0	0	-387	-766	1	2	+	13, 3, 6	1, 0, 6	4, 2, 6	I_5^*, III, I_6	2 : 1; 3 : 4	
G3	0	0	0	-1107	16146	1	2	-	18, 9, 1	6, 0, 1	4, 2, 1	I_{10}^*, III^*, I_1	2 : 4; 3 : 1	
G4	0	0	0	-18387	959634	1	2	+	15, 9, 2	3, 0, 2	4, 2, 2	I_7^*, III^*, I_2	2 : 3; 3 : 2	
H1	0	0	0	-3	322	1	2	-	12, 7, 1	0, 1, 1	4, 4, 1	I_4^*, I_1^*, I_1	2 : 2	
H2	0	0	0	-723	7378	1	4	+	12, 8, 2	0, 2, 2	4, 4, 2	I_4^*, I_2^*, I_2	2 : 1, 3, 4	
H3	0	0	0	-1443	-9758	1	4	+	12, 10, 4	0, 4, 4	4, 4, 2	I_4^*, I_4^*, I_4	2 : 2, 5, 6	
H4	0	0	0	-11523	476098	1	2	+	12, 7, 1	0, 1, 1	2, 2, 1	I_4^*, I_1^*, I_1	2 : 2	
H5	0	0	0	-19443	-1042958	1	4	+	12, 14, 2	0, 8, 2	4, 4, 2	I_4^*, I_8^*, I_2	2 : 3, 7, 8	
H6	0	0	0	5037	-73262	1	2	-	12, 8, 8	0, 2, 8	2, 2, 2	I_4^*, I_2^*, I_8	2 : 3	
H7	0	0	0	-311043	-66769598	1	2	+	12, 10, 1	0, 4, 1	4, 2, 1	I_4^*, I_4^*, I_1	2 : 5	
H8	0	0	0	-15843	-1441118	1	2	-	12, 22, 1	0, 16, 1	2, 4, 1	I_4^*, I_{16}^*, I_1	2 : 5	
I1	0	0	0	-12	11	0	2	+	4, 6, 1	0, 0, 1	1, 2, 1	II, I_0^*, I_1	2 : 2; 3 : 3	
I2	0	0	0	33	74	0	2	-	8, 6, 2	0, 0, 2	1, 2, 2	I_0^*, I_0^*, I_2	2 : 1; 3 : 4	
I3	0	0	0	-372	-2761	0	2	+	4, 6, 3	0, 0, 3	1, 2, 3	II, I_0^*, I_3	2 : 4; 3 : 1	
I4	0	0	0	-327	-3454	0	2	-	8, 6, 6	0, 0, 6	1, 2, 6	I_0^*, I_0^*, I_6	2 : 3; 3 : 2	
J1	0	0	0	213	3674	0	2	-	16, 9, 1	4, 3, 1	4, 2, 1	I_8^*, I_3^*, I_1	2 : 2; 3 : 3	
J2	0	0	0	-2667	48026	0	4	+	14, 12, 2	2, 6, 2	4, 4, 2	I_6^*, I_6^*, I_2	2 : 1, 4, 5; 3 : 6	
J3	0	0	0	-1947	-108214	0	2	-	24, 7, 3	12, 1, 3	4, 2, 3	I_{16}^*, I_1^*, I_3	2 : 6; 3 : 1	
J4	0	0	0	-9867	-324934	0	2	+	13, 18, 1	1, 12, 1	4, 4, 1	I_5^*, I_{12}^*, I_1	2 : 2; 3 : 7	
J5	0	0	0	-41547	3259514	0	4	+	13, 9, 4	1, 3, 4	2, 4, 4	I_5^*, I_3^*, I_4	2 : 2; 3 : 8	
J6	0	0	0	-48027	-4043446	0	4	+	18, 8, 6	6, 2, 6	4, 4, 6	I_{10}^*, I_2^*, I_6	2 : 3, 7, 8; 3 : 2	
J7	0	0	0	-768027	-259067446	0	2	+	15, 10, 3	3, 4, 3	4, 4, 3	I_7^*, I_4^*, I_3	2 : 6; 3 : 4	
J8	0	0	0	-65307	-874294	0	4	+	15, 7, 12	3, 1, 12	2, 4, 12	I_7^*, I_1^*, I_{12}	2 : 6; 3 : 5	
722	$N = 722 = 2 \cdot 19^2$ (6 isogeny classes)													722
A1	1	0	1	714	-16080	1	3	-	3, 8	3, 0	1, 3	I_3, IV^*	3 : 2	
A2	1	0	1	-33581	-2375576	1	1	-	9, 8	9, 0	1, 3	I_9, IV^*	3 : 1	
B1	1	-1	0	-1	-11	1	1	-	3, 3	3, 0	1, 2	I_3, III		
C1	1	0	1	-8	-8138	0	1	-	5, 7	5, 1	1, 2	I_5, I_1^*	5 : 2	
C2	1	0	1	-25278	1710222	0	1	-	1, 11	1, 5	1, 2	I_1, I_5^*	5 : 1	
D1	1	-1	1	-429	77485	0	1	-	3, 9	3, 0	3, 2	I_3, III^*		
E1	1	1	1	-5603	-163815	1	1	-	3, 7	3, 1	3, 4	I_3, I_1^*	3 : 2	
E2	1	1	1	3422	-612177	1	1	-	9, 9	9, 3	9, 4	I_9, I_3^*	3 : 1, 3	
E3	1	1	1	-30873	16782247	1	1	-	27, 7	27, 1	27, 4	I_{27}, I_1^*	3 : 2	
F1	1	1	1	2	3	1	1	-	3, 2	3, 0	3, 1	I_2, II	3 : 2	

TABLE 1: ELLIPTIC CURVES 723A–730E

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies	
723	$N = 723 = 3 \cdot 241$ (2 isogeny classes)													723
A1	1	1	1	-4	-4	1	2	+	2, 1	2, 1	2, 1	I_2, I_1	2 : 2	
A2	1	1	1	11	-10	1	2	-	1, 2	1, 2	1, 2	I_1, I_2	2 : 1	
B1	0	1	1	-3	-4	1	1	-	1, 1	1, 1	1, 1	I_1, I_1		
725	$N = 725 = 5^2 \cdot 29$ (1 isogeny class)													725
A1	1	-1	0	-67	216	1	2	+	7, 1	1, 1	2, 1	I_1^*, I_1	2 : 2	
A2	1	-1	0	58	841	1	2	-	8, 2	2, 2	4, 2	I_2^*, I_2	2 : 1	
726	$N = 726 = 2 \cdot 3 \cdot 11^2$ (9 isogeny classes)													726
A1	1	1	0	-35	-51	1	2	+	6, 3, 3	6, 3, 0	2, 1, 2	I_6, I_3, III	2 : 2	
A2	1	1	0	-475	-4187	1	2	+	3, 6, 3	3, 6, 0	1, 2, 2	I_3, I_6, III	2 : 1	
B1	1	1	0	21657	-1855179	0	1	-	10, 4, 10	10, 4, 0	2, 2, 1	I_{10}, I_4, II^*		
C1	1	1	0	-244	-128	0	2	+	4, 1, 7	4, 1, 1	2, 1, 2	I_4, I_1, I_1^*	2 : 2	
C2	1	1	0	-2664	51660	0	4	+	2, 2, 8	2, 2, 2	2, 2, 4	I_2, I_2, I_2^*	2 : 1, 3, 4	
C3	1	1	0	-42594	3365850	0	2	+	1, 1, 7	1, 1, 1	1, 1, 4	I_1, I_1, I_1^*	2 : 2	
C4	1	1	0	-1454	100302	0	2	-	1, 4, 10	1, 4, 4	1, 2, 4	I_1, I_4, I_4^*	2 : 2	
D1	1	0	1	-14	20	1	1	-	2, 4, 2	2, 4, 0	2, 4, 1	I_2, I_4, II		
E1	1	0	1	-5448	-113258	1	2	+	10, 5, 7	10, 5, 1	2, 5, 4	I_{10}, I_5, I_1^*	2 : 2; 5 : 3	
E2	1	0	1	13912	-732778	1	2	-	5, 10, 8	5, 10, 2	1, 10, 4	I_5, I_{10}, I_2^*	2 : 1; 5 : 4	
E3	1	0	1	-1217868	517205302	1	2	+	2, 1, 11	2, 1, 5	2, 1, 4	I_2, I_1, I_5^*	2 : 4; 5 : 1	
E4	1	0	1	-1216658	518284622	1	2	-	1, 2, 16	1, 2, 10	1, 2, 4	I_1, I_2, I_{10}^*	2 : 3; 5 : 2	
F1	1	1	1	-4298	46487	0	2	+	6, 3, 9	6, 3, 0	6, 1, 2	I_6, I_3, III^*	2 : 2	
F2	1	1	1	-57538	5285303	0	2	+	3, 6, 9	3, 6, 0	3, 2, 2	I_3, I_6, III^*	2 : 1	
G1	1	1	1	179	1475	1	1	-	10, 4, 4	10, 4, 0	10, 2, 3	I_{10}, I_4, IV		
H1	1	0	0	-668	-6324	0	2	+	2, 3, 7	2, 3, 1	2, 3, 2	I_2, I_3, I_1^*	2 : 2; 3 : 3	
H2	1	0	0	542	-26410	0	2	-	1, 6, 8	1, 6, 2	1, 6, 4	I_1, I_6, I_2^*	2 : 1; 3 : 4	
H3	1	0	0	-9743	367929	0	2	+	6, 1, 9	6, 1, 3	6, 1, 2	I_6, I_1, I_3^*	2 : 4; 3 : 1	
H4	1	0	0	-4903	734801	0	2	-	3, 2, 12	3, 2, 6	3, 2, 4	I_3, I_2, I_6^*	2 : 3; 3 : 2	
I1	1	0	0	-1636	-28588	0	1	-	2, 4, 8	2, 4, 0	2, 4, 1	I_2, I_4, IV^*		
728	$N = 728 = 2^3 \cdot 7 \cdot 13$ (4 isogeny classes)													728
A1	0	-1	0	-8	-20	0	1	-	11, 1, 1	0, 1, 1	1, 1, 1	II^*, I_1, I_1		
B1	0	-1	0	1071	8501	0	1	-	8, 1, 7	0, 1, 7	4, 1, 1	I_1^*, I_1, I_7		
C1	0	0	0	-68	-236	1	1	-	8, 1, 3	0, 1, 3	2, 1, 3	I_1^*, I_1, I_3		
D1	0	1	0	-1	51	1	1	-	8, 3, 1	0, 3, 1	2, 3, 1	I_1^*, I_3, I_1		
730	$N = 730 = 2 \cdot 5 \cdot 73$ (11 isogeny classes)													730
A1	1	-1	0	-865	-9219	0	2	+	16, 4, 1	16, 4, 1	2, 2, 1	I_{16}, I_4, I_1	2 : 2	
A2	1	-1	0	415	-35075	0	2	-	8, 8, 2	8, 8, 2	2, 2, 2	I_8, I_8, I_2	2 : 1	
B1	1	0	1	96	-658	0	3	-	7, 1, 3	7, 1, 3	1, 1, 3	I_7, I_1, I_3	3 : 2	
B2	1	0	1	-3919	-94974	0	1	-	21, 3, 1	21, 3, 1	1, 1, 1	I_{21}, I_3, I_1	3 : 1	
C1	1	-1	0	-2440	47006	0	1	+	1, 7, 1	1, 7, 1	1, 1, 1	I_1, I_7, I_1		
D1	1	1	0	-1897	29189	0	1	+	27, 1, 1	27, 1, 1	1, 1, 1	I_{27}, I_1, I_1		

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
730	$N = 730 = 2 \cdot 5 \cdot 73$ (continued)												730
F1	1	-1	0	-949	11493	1	2	+	4, 4, 1	4, 4, 1	2, 4, 1	I_4, I_4, I_1	2 : 2
F2	1	-1	0	-929	11985	1	2	-	2, 8, 2	2, 8, 2	2, 8, 2	I_2, I_8, I_2	2 : 1
G1	1	-1	0	-4	-2	1	1	+	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	
H1	1	0	0	19	-5	0	1	-	1, 5, 1	1, 5, 1	1, 1, 1	I_1, I_5, I_1	
I1	1	1	1	-26	39	1	1	+	7, 1, 1	7, 1, 1	7, 1, 1	I_7, I_1, I_1	
J1	1	1	1	-405	-1925	1	1	+	9, 7, 1	9, 7, 1	9, 7, 1	I_9, I_7, I_1	
K1	1	0	0	-15	17	0	3	+	3, 3, 1	3, 3, 1	3, 3, 1	I_3, I_3, I_1	3 : 2
K2	1	0	0	-365	-2713	0	1	+	1, 1, 3	1, 1, 3	1, 1, 3	I_1, I_1, I_3	3 : 1
731	$N = 731 = 17 \cdot 43$ (1 isogeny class)												731
A1	1	0	1	-539	4765	1	1	-	3, 1	3, 1	1, 1	I_3, I_1	
732	$N = 732 = 2^2 \cdot 3 \cdot 61$ (3 isogeny classes)												732
A1	0	-1	0	-17	30	0	2	+	4, 4, 1	0, 4, 1	1, 2, 1	IV, I_4, I_1	2 : 2
A2	0	-1	0	28	120	0	2	-	8, 2, 2	0, 2, 2	1, 2, 2	IV^*, I_2, I_2	2 : 1
B1	0	-1	0	-100	424	1	1	-	8, 4, 1	0, 4, 1	3, 2, 1	IV^*, I_4, I_1	
C1	0	1	0	-29	36	1	2	+	4, 6, 1	0, 6, 1	3, 6, 1	IV, I_6, I_1	2 : 2
C2	0	1	0	-164	-828	1	2	+	8, 3, 2	0, 3, 2	3, 3, 2	IV^*, I_3, I_2	2 : 1
733	$N = 733 = 733$ (1 isogeny class)												733
A1	1	1	0	-75	-284	0	1	+	1	1	1	I_1	
734	$N = 734 = 2 \cdot 367$ (1 isogeny class)												734
A1	1	1	1	-3	-31	0	2	-	10, 1	10, 1	10, 1	I_{10}, I_1	2 : 2
A2	1	1	1	-163	-863	0	2	+	5, 2	5, 2	5, 2	I_5, I_2	2 : 1
735	$N = 735 = 3 \cdot 5 \cdot 7^2$ (6 isogeny classes)												735
A1	1	1	0	-123	-552	0	2	+	1, 1, 7	1, 1, 1	1, 1, 4	I_1, I_1, I_1^*	2 : 2
A2	1	1	0	-368	1947	0	4	+	2, 2, 8	2, 2, 2	2, 2, 4	I_2, I_2, I_2^*	2 : 1, 3, 4
A3	1	1	0	-5513	155268	0	2	+	1, 4, 7	1, 4, 1	1, 2, 2	I_1, I_4, I_1^*	2 : 2
A4	1	1	0	857	13462	0	2	-	4, 1, 10	4, 1, 4	2, 1, 4	I_4, I_1, I_4^*	2 : 2
B1	0	-1	1	-15206	-1184338	0	1	-	7, 4, 10	7, 4, 0	1, 2, 1	I_7, I_4, II^*	
C1	0	-1	1	5	6	1	1	-	3, 2, 2	3, 2, 0	1, 2, 1	I_3, I_2, II	3 : 2
C2	0	-1	1	-205	1203	1	1	-	1, 6, 2	1, 6, 0	1, 6, 1	I_1, I_6, II	3 : 1
D1	0	1	1	229	-2614	0	3	-	3, 2, 8	3, 2, 0	3, 2, 3	I_3, I_2, IV^*	3 : 2
D2	0	1	1	-10061	-392605	0	1	-	1, 6, 8	1, 6, 0	1, 2, 3	I_1, I_6, IV^*	3 : 1
E1	1	0	0	-1	-64	1	2	-	1, 1, 6	1, 1, 0	1, 1, 2	I_1, I_1, I_0^*	2 : 2
E2	1	0	0	-246	-1485	1	4	+	2, 2, 6	2, 2, 0	2, 2, 4	I_2, I_2, I_0^*	2 : 1, 3, 4
E3	1	0	0	-3921	-94830	1	2	+	1, 1, 6	1, 1, 0	1, 1, 4	I_1, I_1, I_0^*	2 : 2
E4	1	0	0	-491	1896	1	4	+	4, 4, 6	4, 4, 0	4, 2, 4	I_4, I_4, I_0^*	2 : 2, 5, 6
E5	1	0	0	-6616	206471	1	4	+	8, 2, 6	8, 2, 0	8, 2, 4	I_8, I_2, I_0^*	2 : 4, 7, 8
E6	1	0	0	1714	14685	1	2	-	2, 8, 6	2, 8, 0	2, 2, 2	I_2, I_8, I_0^*	2 : 4
E7	1	0	0	-105841	13244636	1	2	+	4, 1, 6	4, 1, 0	4, 1, 2	I_4, I_1, I_0^*	2 : 5
E8	1	0	0	-5391	285606	1	2	-	16, 1, 6	16, 1, 0	16, 1, 4	I_{16}, I_1, I_0^*	2 : 5

TABLE 1: ELLIPTIC CURVES 737A–742D

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
737	$N = 737 = 11 \cdot 67$ (1 isogeny class)												737
A1	0	-1	1	406	-686	1	1	-	4, 3	4, 3	4, 3	I_4, I_3	
738	$N = 738 = 2 \cdot 3^2 \cdot 41$ (10 isogeny classes)												738
A1	1	-1	0	66	116	1	1	-	5, 9, 1	5, 0, 1	1, 2, 1	I_5, III^*, I_1	
B1	1	-1	0	-1575	751869	0	1	-	25, 11, 1	25, 5, 1	1, 2, 1	I_{25}, I_5^*, I_1	5 : 2
B2	1	-1	0	-5215815	4586220189	0	1	-	5, 7, 5	5, 1, 5	1, 2, 1	I_5, I_1^*, I_5	5 : 1
C1	1	-1	0	-81	-243	0	2	+	4, 8, 1	4, 2, 1	2, 2, 1	I_4, I_2^*, I_1	2 : 2
C2	1	-1	0	-261	1377	0	4	+	2, 10, 2	2, 4, 2	2, 4, 2	I_2, I_4^*, I_2	2 : 1, 3, 4
C3	1	-1	0	-3951	96579	0	2	+	1, 14, 1	1, 8, 1	1, 4, 1	I_1, I_8^*, I_1	2 : 2
C4	1	-1	0	549	7695	0	2	-	1, 8, 4	1, 2, 4	1, 4, 2	I_1, I_2^*, I_4	2 : 2
D1	1	-1	0	-2430	46732	1	1	-	3, 13, 1	3, 7, 1	1, 4, 1	I_3, I_7^*, I_1	
E1	1	-1	1	7	-7	1	1	-	5, 3, 1	5, 0, 1	5, 2, 1	I_5, III, I_1	
F1	1	-1	1	-374	2949	1	1	-	11, 7, 1	11, 1, 1	11, 4, 1	I_{11}, I_1^*, I_1	
G1	1	-1	1	-599	-5457	0	2	+	6, 10, 1	6, 4, 1	6, 2, 1	I_6, I_4^*, I_1	2 : 2
G2	1	-1	1	-239	-12225	0	2	-	3, 14, 2	3, 8, 2	3, 4, 2	I_3, I_8^*, I_2	2 : 1
H1	1	-1	1	-4085069	3178971893	0	2	+	14, 18, 1	14, 12, 1	14, 2, 1	I_{14}, I_{12}^*, I_1	2 : 2
H2	1	-1	1	-4079309	3188379125	0	2	-	7, 30, 2	7, 24, 2	7, 4, 2	I_7, I_{24}^*, I_2	2 : 1
I1	1	-1	1	-14	-7	0	2	+	2, 6, 1	2, 0, 1	2, 2, 1	I_2, I_0^*, I_1	2 : 2
I2	1	-1	1	-104	425	0	2	+	1, 6, 2	1, 0, 2	1, 2, 2	I_1, I_0^*, I_2	2 : 1
J1	1	-1	1	-14	-61	0	1	-	1, 9, 1	1, 3, 1	1, 2, 1	I_1, I_3^*, I_1	3 : 2
J2	1	-1	1	121	1559	0	3	-	3, 7, 3	3, 1, 3	3, 2, 3	I_3, I_1^*, I_3	3 : 1
739	$N = 739 = 739$ (1 isogeny class)												739
A1	0	0	1	1	1	0	1	-	1	1	1	I_1	
740	$N = 740 = 2^2 \cdot 5 \cdot 37$ (3 isogeny classes)												740
A1	0	0	0	-219448	39364772	0	1	+	8, 8, 5	0, 8, 5	3, 2, 1	IV^*, I_8, I_5	
B1	0	1	0	-181	-425	1	3	+	8, 2, 3	0, 2, 3	3, 2, 3	IV^*, I_2, I_3	3 : 2
B2	0	1	0	-12021	-511321	1	1	+	8, 6, 1	0, 6, 1	1, 2, 1	IV^*, I_6, I_1	3 : 1
C1	0	-1	0	-45	25	1	1	+	8, 4, 1	0, 4, 1	3, 4, 1	IV^*, I_4, I_1	
741	$N = 741 = 3 \cdot 13 \cdot 19$ (5 isogeny classes)												741
A1	1	1	0	-2	-3	0	1	-	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	
B1	1	1	0	5571	-41634	0	1	-	7, 3, 5	7, 3, 5	1, 3, 1	I_7, I_3, I_5	
C1	1	0	1	-5227	-155497	0	1	-	11, 5, 1	11, 5, 1	11, 1, 1	I_{11}, I_5, I_1	
D1	0	1	1	101470	57781877	0	1	-	10, 4, 7	10, 4, 7	10, 2, 1	I_{10}, I_4, I_7	
E1	0	1	1	-5	23	1	1	-	4, 2, 1	4, 2, 1	4, 2, 1	I_4, I_2, I_1	
742	$N = 742 = 2 \cdot 7 \cdot 53$ (7 isogeny classes)												742
A1	1	-1	0	-5	7	1	1	-	1, 2, 1	1, 2, 1	1, 2, 1	I_1, I_2, I_1	
B1	1	1	0	-63	245	0	2	-	4, 3, 2	4, 3, 2	2, 1, 2	I_4, I_3, I_2	2 : 2
B2	1	1	0	-1123	14025	0	2	+	2, 6, 1	2, 6, 1	2, 2, 1	I_2, I_6, I_1	2 : 1
C1	1	-1	0	727	11853	0	1	-	25, 2, 1	25, 2, 1	1, 2, 1	I_{25}, I_2, I_1	

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
742	$N = 742 = 2 \cdot 7 \cdot 53$ (continued)												742
E1	1	1	0	-29612	2027600	1	2	-	10, 5, 4	10, 5, 4	2, 5, 4	I_{10}, I_5, I_4	2 : 2
E2	1	1	0	-479052	127421360	1	2	+	5, 10, 2	5, 10, 2	1, 10, 2	I_5, I_{10}, I_2	2 : 1
F1	1	-1	1	-81	11797	0	1	-	2, 10, 1	2, 10, 1	2, 2, 1	I_2, I_{10}, I_1	
G1	1	1	1	-14	75	1	1	-	10, 2, 1	10, 2, 1	10, 2, 1	I_{10}, I_2, I_1	
744	$N = 744 = 2^3 \cdot 3 \cdot 31$ (7 isogeny classes)												744
A1	0	-1	0	4	-3	1	1	-	4, 2, 1	0, 2, 1	2, 2, 1	III, I_2, I_1	
B1	0	1	0	-279	-1890	0	2	+	4, 3, 1	0, 3, 1	2, 3, 1	III, I_3, I_1	2 : 2
B2	0	1	0	-284	-1824	0	4	+	8, 6, 2	0, 6, 2	2, 6, 2	I_1^*, I_6, I_2	2 : 1, 3, 4
B3	0	1	0	-904	8096	0	4	+	10, 12, 1	0, 12, 1	2, 12, 1	III^*, I_{12}, I_1	2 : 2
B4	0	1	0	256	-7440	0	2	-	10, 3, 4	0, 3, 4	2, 3, 2	III^*, I_3, I_4	2 : 2
C1	0	1	0	8	89	1	1	-	4, 8, 1	0, 8, 1	2, 8, 1	III, I_8, I_1	
D1	0	-1	0	936	-25839	0	1	-	4, 6, 5	0, 6, 5	2, 2, 1	III, I_6, I_5	
E1	0	-1	0	-32	-84	0	1	-	11, 3, 1	0, 3, 1	1, 1, 1	II^*, I_3, I_1	
F1	0	-1	0	-140	753	1	1	-	4, 4, 3	0, 4, 3	2, 2, 3	III, I_4, I_3	
G1	0	1	0	-96	333	1	1	-	4, 6, 1	0, 6, 1	2, 6, 1	III, I_6, I_1	
747	$N = 747 = 3^2 \cdot 83$ (5 isogeny classes)												747
A1	1	-1	1	-56	-134	1	2	+	9, 1	0, 1	2, 1	III^*, I_1	2 : 2
A2	1	-1	1	-191	892	1	2	+	9, 2	0, 2	2, 2	III^*, I_2	2 : 1
B1	1	-1	0	-6	7	0	2	+	3, 1	0, 1	2, 1	III, I_1	2 : 2
B2	1	-1	0	-21	-26	0	2	+	3, 2	0, 2	2, 2	III, I_2	2 : 1
C1	1	-1	0	-495	-4118	1	1	-	9, 1	3, 1	2, 1	I_3^*, I_1	
D1	1	-1	0	9	4	1	1	-	6, 1	0, 1	1, 1	I_0^*, I_1	
E1	1	-1	1	13	-12	1	1	-	7, 1	1, 1	2, 1	I_1^*, I_1	
748	$N = 748 = 2^2 \cdot 11 \cdot 17$ (1 isogeny class)												748
A1	0	0	0	-496	-4252	0	1	-	8, 1, 2	0, 1, 2	3, 1, 2	IV^*, I_1, I_2	
749	$N = 749 = 7 \cdot 107$ (1 isogeny class)												749
A1	1	0	0	-4	-5	1	1	-	2, 1	2, 1	2, 1	I_2, I_1	
752	$N = 752 = 2^4 \cdot 47$ (1 isogeny class)												752
A1	0	0	0	5	42	1	2	-	14, 1	2, 1	4, 1	I_6^*, I_1	2 : 2
A2	0	0	0	-155	714	1	2	+	13, 2	1, 2	4, 2	I_5^*, I_2	2 : 1
753	$N = 753 = 3 \cdot 251$ (3 isogeny classes)												753
A1	0	-1	1	-4	-3	0	1	-	2, 1	2, 1	2, 1	I_2, I_1	
B1	0	1	1	-9	20	0	3	-	6, 1	6, 1	6, 1	I_6, I_1	3 : 2
B2	0	1	1	81	-475	0	1	-	2, 3	2, 3	2, 1	I_2, I_3	3 : 1
C1	0	1	1	5	7	1	1	-	4, 1	4, 1	4, 1	I_4, I_1	
754	$N = 754 = 2 \cdot 13 \cdot 29$ (4 isogeny classes)												754
A1	1	0	1	-377	2782	0	3	-	1 3 2	1 3 2	1 3 2	$I_1 I_2 I_3$	3 : 2

TABLE 1: ELLIPTIC CURVES 754B–760B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
754	$N = 754 = 2 \cdot 13 \cdot 29$ (continued)												754
B1	1	0	1	-10758	428760	1	1	-	13, 1, 4	13, 1, 4	1, 1, 4	I_{13}, I_1, I_4	
C1	1	0	1	-7	-6	1	2	+	4, 1, 1	4, 1, 1	2, 1, 1	I_4, I_1, I_1	2 : 2
C2	1	0	1	13	-30	1	2	-	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1
D1	1	0	0	43	-31	1	1	-	9, 1, 2	9, 1, 2	9, 1, 2	I_9, I_1, I_2	
755	$N = 755 = 5 \cdot 151$ (6 isogeny classes)												755
A1	0	0	1	2	-1	1	1	-	1, 1	1, 1	1, 1	I_1, I_1	
B1	1	0	1	1	1	1	1	-	1, 1	1, 1	1, 1	I_1, I_1	
C1	1	0	1	1	-3	0	2	-	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
C2	1	0	1	-24	-43	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 1
D1	0	1	1	0	1	0	1	-	1, 1	1, 1	1, 1	I_1, I_1	
E1	0	0	1	-7	7	0	1	-	1, 1	1, 1	1, 1	I_1, I_1	
F1	0	0	1	-56917	-5226543	0	1	-	13, 1	13, 1	13, 1	I_{13}, I_1	
756	$N = 756 = 2^2 \cdot 3^3 \cdot 7$ (6 isogeny classes)												756
A1	0	0	0	-432	3348	0	1	+	8, 11, 1	0, 0, 1	1, 1, 1	IV^*, II^*, I_1	
B1	0	0	0	-24	-44	1	1	+	8, 3, 1	0, 0, 1	1, 1, 1	IV^*, II, I_1	3 : 2
B2	0	0	0	-264	1636	1	3	+	8, 5, 3	0, 0, 3	3, 3, 3	IV^*, IV, I_3	3 : 1
C1	0	0	0	-48	-124	1	1	+	8, 5, 1	0, 0, 1	3, 1, 1	IV^*, IV, I_1	
D1	0	0	0	-216	1188	0	3	+	8, 9, 1	0, 0, 1	3, 3, 1	IV^*, IV^*, I_1	3 : 2
D2	0	0	0	-2376	-44172	0	1	+	8, 11, 3	0, 0, 3	1, 1, 3	IV^*, II^*, I_3	3 : 1
E1	0	0	0	9	-2	0	1	-	8, 3, 1	0, 0, 1	1, 1, 1	IV^*, II, I_1	3 : 2
E2	0	0	0	-111	502	0	3	-	8, 5, 3	0, 0, 3	3, 1, 3	IV^*, IV, I_3	3 : 1
F1	0	0	0	81	54	0	3	-	8, 9, 1	0, 0, 1	3, 3, 1	IV^*, IV^*, I_1	3 : 2
F2	0	0	0	-999	-13554	0	1	-	8, 11, 3	0, 0, 3	1, 1, 3	IV^*, II^*, I_3	3 : 1
758	$N = 758 = 2 \cdot 379$ (2 isogeny classes)												758
A1	1	0	1	11	0	1	1	-	8, 1	8, 1	2, 1	I_8, I_1	
B1	1	1	1	-44	-131	0	1	-	4, 1	4, 1	4, 1	I_4, I_1	
759	$N = 759 = 3 \cdot 11 \cdot 23$ (2 isogeny classes)												759
A1	1	1	1	-23	-628	1	2	-	10, 2, 1	10, 2, 1	2, 2, 1	I_{10}, I_2, I_1	2 : 2
A2	1	1	1	-1238	-17152	1	2	+	5, 4, 2	5, 4, 2	1, 4, 2	I_5, I_4, I_2	2 : 1
B1	1	0	0	31	-192	1	4	-	8, 2, 1	8, 2, 1	8, 2, 1	I_8, I_2, I_1	2 : 2
B2	1	0	0	-374	-2541	1	8	+	4, 4, 2	4, 4, 2	4, 4, 2	I_4, I_4, I_2	2 : 1, 3, 4
B3	1	0	0	-5819	-171336	1	4	+	2, 2, 4	2, 2, 4	2, 2, 2	I_2, I_2, I_4	2 : 2, 5, 6
B4	1	0	0	-1409	17538	1	4	+	2, 8, 1	2, 8, 1	2, 8, 1	I_2, I_8, I_1	2 : 2
B5	1	0	0	-93104	-10942305	1	2	+	1, 1, 2	1, 1, 2	1, 1, 2	I_1, I_1, I_2	2 : 3
B6	1	0	0	-5654	-181467	1	2	-	1, 1, 8	1, 1, 8	1, 1, 2	I_1, I_1, I_8	2 : 3
760	$N = 760 = 2^3 \cdot 5 \cdot 19$ (5 isogeny classes)												760
A1	0	-1	0	5	0	0	2	-	4, 2, 1	0, 2, 1	2, 2, 1	III, I_2, I_1	2 : 2
A2	0	-1	0	-20	20	0	2	+	8, 1, 2	0, 1, 2	2, 1, 2	I_1^*, I_1, I_2	2 : 1
B1	0	1	0	-26035	-1626942	0	2	-	4, 14, 1	0, 14, 1	2, 14, 1	III, I_{14}, I_1	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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760 **760**
 $N = 760 = 2^3 \cdot 5 \cdot 19$ (continued)

C1	0	0	0	-67	926	0	1	-	11, 2, 3	0, 2, 3	1, 2, 1	II*, I ₂ , I ₃	
D1	0	1	0	-35	58	1	2	+	4, 3, 2	0, 3, 2	2, 3, 2	III, I ₃ , I ₂	2 : 2
D2	0	1	0	60	400	1	2	-	8, 6, 1	0, 6, 1	2, 6, 1	I ₁ *, I ₆ , I ₁	2 : 1
E1	0	0	0	-2	21	1	4	-	4, 4, 1	0, 4, 1	2, 4, 1	III, I ₄ , I ₁	2 : 2
E2	0	0	0	-127	546	1	4	+	8, 2, 2	0, 2, 2	4, 2, 2	I ₁ *, I ₂ , I ₂	2 : 1, 3, 4
E3	0	0	0	-227	-434	1	2	+	10, 1, 4	0, 1, 4	2, 1, 2	III*, I ₁ , I ₄	2 : 2
E4	0	0	0	-2027	35126	1	2	+	10, 1, 1	0, 1, 1	2, 1, 1	III*, I ₁ , I ₁	2 : 2

762 **762**
 $N = 762 = 2 \cdot 3 \cdot 127$ (7 isogeny classes)

A1	1	0	1	-6	-8	0	1	-	5, 1, 1	5, 1, 1	1, 1, 1	I ₅ , I ₁ , I ₁	
B1	1	0	1	-17677	-9208	0	1	+	35, 4, 1	35, 4, 1	1, 4, 1	I ₃₅ , I ₄ , I ₁	
C1	1	0	1	-10	-10	1	1	+	1, 4, 1	1, 4, 1	1, 4, 1	I ₁ , I ₄ , I ₁	
D1	1	1	1	-21	27	1	1	+	5, 2, 1	5, 2, 1	5, 2, 1	I ₅ , I ₂ , I ₁	
E1	1	0	0	-267	1521	1	1	+	11, 6, 1	11, 6, 1	11, 6, 1	I ₁₁ , I ₆ , I ₁	
F1	1	0	0	-8	-216	0	3	-	3, 9, 1	3, 9, 1	3, 9, 1	I ₃ , I ₉ , I ₁	3 : 2
F2	1	0	0	-2978	-62802	0	1	-	1, 3, 3	1, 3, 3	1, 3, 3	I ₁ , I ₃ , I ₃	3 : 1
G1	1	0	0	-101946	12401892	0	7	+	21, 14, 1	21, 14, 1	21, 14, 1	I ₂₁ , I ₁₄ , I ₁	7 : 2
G2	1	0	0	-22361106	-40701264948	0	1	+	3, 2, 7	3, 2, 7	3, 2, 7	I ₃ , I ₂ , I ₇	7 : 1

763 **763**
 $N = 763 = 7 \cdot 109$ (1 isogeny class)

A1	0	0	1	-5	10	1	1	-	3, 1	3, 1	3, 1	I ₃ , I ₁	
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765 **765**
 $N = 765 = 3^2 \cdot 5 \cdot 17$ (3 isogeny classes)

A1	1	-1	0	-150	791	0	2	-	9, 1, 2	0, 1, 2	2, 1, 2	III*, I ₁ , I ₂	2 : 2
A2	1	-1	0	-2445	47150	0	2	+	9, 2, 1	0, 2, 1	2, 2, 1	III*, I ₂ , I ₁	2 : 1
B1	1	-1	1	-17	-24	0	2	-	3, 1, 2	0, 1, 2	2, 1, 2	III, I ₁ , I ₂	2 : 2
B2	1	-1	1	-272	-1656	0	2	+	3, 2, 1	0, 2, 1	2, 2, 1	III, I ₂ , I ₁	2 : 1
C1	1	-1	1	-77	276	1	2	+	6, 2, 1	0, 2, 1	2, 2, 1	I ₀ *, I ₂ , I ₁	2 : 2
C2	1	-1	1	-32	564	1	2	-	6, 4, 2	0, 4, 2	2, 4, 2	I ₀ *, I ₄ , I ₂	2 : 1

766 **766**
 $N = 766 = 2 \cdot 383$ (1 isogeny class)

A1	1	1	0	11	45	0	1	-	11, 1	11, 1	1, 1	I ₁₁ , I ₁	
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768 **768**
 $N = 768 = 2^8 \cdot 3$ (8 isogeny classes)

A1	0	-1	0	-23	51	1	2	+	9, 2	0, 2	2, 2	III, I ₂	2 : 2
A2	0	-1	0	-13	85	1	2	-	15, 4	0, 4	2, 2	III*, I ₄	2 : 1
B1	0	-1	0	1	3	1	2	-	9, 2	0, 2	2, 2	III, I ₂	2 : 2; 5 : 3
B2	0	-1	0	-29	69	1	2	+	15, 1	0, 1	2, 1	III*, I ₁	2 : 1; 5 : 4
B3	0	-1	0	-159	-765	1	2	-	9, 10	0, 10	2, 2	III, I ₁₀	2 : 4; 5 : 1
B4	0	-1	0	-2589	-49851	1	2	+	15, 5	0, 5	2, 1	III*, I ₅	2 : 3; 5 : 2
C1	0	1	0	-23	-51	0	2	+	9, 2	0, 2	2, 2	III, I ₂	2 : 2

TABLE 1: ELLIPTIC CURVES 768D–774A

768	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies	768
$N = 768 = 2^8 \cdot 3$ (continued)														
D1	0	1	0	-7	5	0	2	+	9, 1	0, 1	2, 1	III, I ₁	2 : 2; 5 : 3	
D2	0	1	0	3	27	0	2	-	15, 2	0, 2	2, 2	III*, I ₂	2 : 1; 5 : 4	
D3	0	1	0	-647	-6555	0	2	+	9, 5	0, 5	2, 5	III, I ₅	2 : 4; 5 : 1	
D4	0	1	0	-637	-6757	0	2	-	15, 10	0, 10	2, 10	III*, I ₁₀	2 : 3; 5 : 2	
E1	0	-1	0	-3	-9	0	2	-	9, 4	0, 4	2, 2	III, I ₄	2 : 2	
E2	0	-1	0	-93	-315	0	2	+	15, 2	0, 2	2, 2	III*, I ₂	2 : 1	
F1	0	-1	0	-7	-5	0	2	+	9, 1	0, 1	2, 1	III, I ₁	2 : 2; 5 : 3	
F2	0	-1	0	3	-27	0	2	-	15, 2	0, 2	2, 2	III*, I ₂	2 : 1; 5 : 4	
F3	0	-1	0	-647	6555	0	2	+	9, 5	0, 5	2, 1	III, I ₅	2 : 4; 5 : 1	
F4	0	-1	0	-637	6757	0	2	-	15, 10	0, 10	2, 2	III*, I ₁₀	2 : 3; 5 : 2	
G1	0	1	0	-3	9	1	2	-	9, 4	0, 4	2, 4	III, I ₄	2 : 2	
G2	0	1	0	-93	315	1	2	+	15, 2	0, 2	2, 2	III*, I ₂	2 : 1	
H1	0	1	0	1	-3	1	2	-	9, 2	0, 2	2, 2	III, I ₂	2 : 2; 5 : 3	
H2	0	1	0	-29	-69	1	2	+	15, 1	0, 1	2, 1	III*, I ₁	2 : 1; 5 : 4	
H3	0	1	0	-159	765	1	2	-	9, 10	0, 10	2, 10	III, I ₁₀	2 : 4; 5 : 1	
H4	0	1	0	-2589	49851	1	2	+	15, 5	0, 5	2, 5	III*, I ₅	2 : 3; 5 : 2	
770	$N = 770 = 2 \cdot 5 \cdot 7 \cdot 11$ (7 isogeny classes)													770
A1	1	1	0	-3	-7	0	2	-	2, 1, 2, 1	2, 1, 2, 1	2, 1, 2, 1	I ₂ , I ₁ , I ₂ , I ₁	2 : 2	
A2	1	1	0	-73	-273	0	2	+	1, 2, 1, 2	1, 2, 1, 2	1, 2, 1, 2	I ₁ , I ₂ , I ₁ , I ₂	2 : 1	
B1	1	0	1	-914	10596	0	6	-	6, 1, 6, 1	6, 1, 6, 1	2, 1, 6, 1	I ₆ , I ₁ , I ₆ , I ₁	2 : 2; 3 : 3	
B2	1	0	1	-14634	680132	0	6	+	3, 2, 3, 2	3, 2, 3, 2	1, 2, 3, 2	I ₃ , I ₂ , I ₃ , I ₂	2 : 1; 3 : 4	
B3	1	0	1	2271	56852	0	2	-	18, 3, 2, 3	18, 3, 2, 3	2, 1, 2, 1	I ₁₈ , I ₃ , I ₂ , I ₃	2 : 4; 3 : 1	
B4	1	0	1	-15649	580116	0	2	+	9, 6, 1, 6	9, 6, 1, 6	1, 2, 1, 2	I ₉ , I ₆ , I ₁ , I ₆	2 : 3; 3 : 2	
C1	1	-1	0	-12089	-612755	0	2	-	8, 5, 8, 1	8, 5, 8, 1	2, 5, 2, 1	I ₈ , I ₅ , I ₈ , I ₁	2 : 2	
C2	1	-1	0	-204169	-35456067	0	4	+	4, 10, 4, 2	4, 10, 4, 2	2, 10, 2, 2	I ₄ , I ₁₀ , I ₄ , I ₂	2 : 1, 3, 4	
C3	1	-1	0	-3266669	-2271693567	0	2	+	2, 5, 2, 4	2, 5, 2, 4	2, 5, 2, 2	I ₂ , I ₅ , I ₂ , I ₄	2 : 2	
C4	1	-1	0	-214949	-31495495	0	4	+	2, 20, 2, 1	2, 20, 2, 1	2, 20, 2, 1	I ₂ , I ₂₀ , I ₂ , I ₁	2 : 2	
D1	1	0	1	32	558	1	2	-	8, 4, 1, 2	8, 4, 1, 2	2, 4, 1, 2	I ₈ , I ₄ , I ₁ , I ₂	2 : 2	
D2	1	0	1	-848	9006	1	2	+	4, 8, 2, 1	4, 8, 2, 1	2, 8, 2, 1	I ₄ , I ₈ , I ₂ , I ₁	2 : 1	
E1	1	-1	0	-29	-635	1	2	-	16, 1, 2, 1	16, 1, 2, 1	2, 1, 2, 1	I ₁₆ , I ₁ , I ₂ , I ₁	2 : 2	
E2	1	-1	0	-1309	-17787	1	4	+	8, 2, 4, 2	8, 2, 4, 2	2, 2, 4, 2	I ₈ , I ₂ , I ₄ , I ₂	2 : 1, 3, 4	
E3	1	-1	0	-20909	-1158507	1	2	+	4, 1, 2, 4	4, 1, 2, 4	2, 1, 2, 2	I ₄ , I ₁ , I ₂ , I ₄	2 : 2	
E4	1	-1	0	-2189	9845	1	4	+	4, 4, 8, 1	4, 4, 8, 1	2, 4, 8, 1	I ₄ , I ₄ , I ₈ , I ₁	2 : 2	
F1	1	0	0	-56	3136	1	6	-	12, 2, 3, 2	12, 2, 3, 2	12, 2, 3, 2	I ₁₂ , I ₂ , I ₃ , I ₂	2 : 2; 3 : 3	
F2	1	0	0	-3576	81280	1	6	+	6, 4, 6, 1	6, 4, 6, 1	6, 2, 6, 1	I ₆ , I ₄ , I ₆ , I ₁	2 : 1; 3 : 4	
F3	1	0	0	504	-84560	1	2	-	4, 6, 1, 6	4, 6, 1, 6	4, 2, 1, 2	I ₄ , I ₆ , I ₁ , I ₆	2 : 4; 3 : 1	
F4	1	0	0	-26116	-1580604	1	2	+	2, 12, 2, 3	2, 12, 2, 3	2, 2, 2, 1	I ₂ , I ₁₂ , I ₂ , I ₃	2 : 3; 3 : 2	
G1	1	0	0	10	100	0	6	-	6, 3, 2, 1	6, 3, 2, 1	6, 3, 2, 1	I ₆ , I ₃ , I ₂ , I ₁	2 : 2; 3 : 3	
G2	1	0	0	-270	1612	0	6	+	3, 6, 1, 2	3, 6, 1, 2	3, 6, 1, 2	I ₃ , I ₆ , I ₁ , I ₂	2 : 1; 3 : 4	
G3	1	0	0	-90	-2720	0	2	-	2, 1, 6, 3	2, 1, 6, 3	2, 1, 6, 1	I ₂ , I ₁ , I ₆ , I ₃	2 : 4; 3 : 1	
G4	1	0	0	-3520	-80238	0	2	+	1, 2, 3, 6	1, 2, 3, 6	1, 2, 3, 2	I ₁ , I ₂ , I ₃ , I ₆	2 : 3; 3 : 2	
774	$N = 774 = 2 \cdot 3^2 \cdot 43$ (9 isogeny classes)													774
A1	1	-1	0	57	-243	0	3	-	4, 3, 3	4, 0, 3	2, 2, 3	I ₄ , III, I ₂	3 : 2	

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
774	$N = 774 = 2 \cdot 3^2 \cdot 43$ (continued)												
B1	1	-1	0	-216	832	0	2	+	12, 7, 1	12, 1, 1	2, 2, 1	I_{12}, I_1^*, I_1	2 : 2
B2	1	-1	0	-3096	67072	0	4	+	6, 8, 2	6, 2, 2	2, 4, 2	I_6, I_2^*, I_2	2 : 1, 3, 4
B3	1	-1	0	-49536	4255960	0	2	+	3, 7, 1	3, 1, 1	1, 4, 1	I_3, I_1^*, I_1	2 : 2
B4	1	-1	0	-2736	82984	0	2	-	3, 10, 4	3, 4, 4	1, 4, 2	I_3, I_4^*, I_4	2 : 2
C1	1	-1	0	-397116	-96224252	0	1	-	2, 25, 1	2, 19, 1	2, 4, 1	I_2, I_{19}^*, I_1	
D1	1	-1	0	1431	-46899	1	1	-	14, 13, 1	14, 7, 1	2, 2, 1	I_{14}, I_7^*, I_1	7 : 2
D2	1	-1	0	-539109	152510121	1	1	-	2, 7, 7	2, 1, 7	2, 2, 7	I_2, I_1^*, I_7	7 : 1
E1	1	-1	0	-18	0	1	2	+	2, 7, 1	2, 1, 1	2, 4, 1	I_2, I_1^*, I_1	2 : 2
E2	1	-1	0	72	-54	1	2	-	1, 8, 2	1, 2, 2	1, 4, 2	I_1, I_2^*, I_2	2 : 1
F1	1	-1	1	-209	1217	1	3	-	12, 3, 1	12, 0, 1	12, 2, 1	I_{12}, III, I_1	3 : 2
F2	1	-1	1	511	6049	1	1	-	4, 9, 3	4, 0, 3	4, 2, 3	I_4, III^*, I_3	3 : 1
G1	1	-1	1	22	105	1	1	-	6, 7, 1	6, 1, 1	6, 4, 1	I_6, I_1^*, I_1	
H1	1	-1	1	-17249	-866127	0	2	+	14, 13, 1	14, 7, 1	14, 2, 1	I_{14}, I_7^*, I_1	2 : 2
H2	1	-1	1	-11489	-1458255	0	2	-	7, 20, 2	7, 14, 2	7, 4, 2	I_7, I_{14}^*, I_2	2 : 1
I1	1	-1	1	-131	-601	0	1	-	2, 11, 1	2, 5, 1	2, 2, 1	I_2, I_5^*, I_1	
775	$N = 775 = 5^2 \cdot 31$ (3 isogeny classes)												
A1	0	1	1	-33	94	1	1	-	7, 1	1, 1	2, 1	I_1^*, I_1	
B1	1	0	1	-26	-177	0	2	-	8, 1	2, 1	4, 1	I_2^*, I_1	2 : 2
B2	1	0	1	-651	-6427	0	2	+	7, 2	1, 2	2, 2	I_1^*, I_2	2 : 1
C1	0	1	1	242	1269	0	1	-	11, 1	5, 1	4, 1	I_5^*, I_1	5 : 2
C2	0	1	1	-21008	-1181231	0	1	-	7, 5	1, 5	4, 5	I_1^*, I_5	5 : 1
776	$N = 776 = 2^3 \cdot 97$ (1 isogeny class)												
A1	0	0	0	-31	66	1	2	+	8, 1	0, 1	4, 1	I_1^*, I_1	2 : 2
A2	0	0	0	-11	150	1	2	-	10, 2	0, 2	2, 2	III^*, I_2	2 : 1
777	$N = 777 = 3 \cdot 7 \cdot 37$ (7 isogeny classes)												
A1	1	1	0	-16	19	0	2	+	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	2 : 2
A2	1	1	0	-21	0	0	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1, 3, 4
A3	1	1	0	-206	-1221	0	2	+	4, 4, 1	4, 4, 1	2, 2, 1	I_4, I_4, I_1	2 : 2
A4	1	1	0	84	105	0	4	-	1, 1, 4	1, 1, 4	1, 1, 4	I_1, I_1, I_4	2 : 2
B1	0	-1	1	-2531950	1551713040	0	1	-	10, 13, 1	10, 13, 1	2, 1, 1	I_{10}, I_{13}, I_1	
C1	0	-1	1	-169	-792	0	1	-	4, 1, 1	4, 1, 1	2, 1, 1	I_4, I_1, I_1	
D1	1	1	1	-14	26	1	4	-	1, 4, 1	1, 4, 1	1, 4, 1	I_1, I_4, I_1	2 : 2
D2	1	1	1	-259	1496	1	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1, 3, 4
D3	1	1	1	-294	1020	1	2	+	4, 1, 4	4, 1, 4	2, 1, 4	I_4, I_1, I_4	2 : 2
D4	1	1	1	-4144	100952	1	2	+	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	2 : 2
E1	1	0	1	-1312	-18391	1	2	+	5, 1, 1	5, 1, 1	5, 1, 1	I_5, I_1, I_1	2 : 2
E2	1	0	1	-1317	-18245	1	4	+	10, 2, 2	10, 2, 2	10, 2, 2	I_{10}, I_2, I_2	2 : 1, 3, 4
E3	1	0	1	-2612	23195	1	4	+	20, 1, 1	20, 1, 1	20, 1, 1	I_{20}, I_1, I_1	2 : 2
E4	1	0	1	-102	-50321	1	2	-	5, 4, 4	5, 4, 4	5, 2, 4	I_5, I_4, I_4	2 : 2
F1	0	1	1	0	2	1	1	-	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	

TABLE 1: ELLIPTIC CURVES 780A–784I

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
780	$N = 780 = 2^2 \cdot 3 \cdot 5 \cdot 13$ (4 isogeny classes)												780
A1	0	-1	0	-105	450	1	2	+	4, 4, 2, 1	0, 4, 2, 1	3, 2, 2, 1	IV, I ₄ , I ₂ , I ₁	2 : 2
A2	0	-1	0	-60	792	1	2	-	8, 2, 4, 2	0, 2, 4, 2	3, 2, 4, 2	IV*, I ₂ , I ₄ , I ₂	2 : 1
B1	0	-1	0	195	-195975	0	1	-	8, 13, 5, 1	0, 13, 5, 1	1, 1, 5, 1	IV*, I ₁₃ , I ₅ , I ₁	
C1	0	1	0	-81	0	1	2	+	4, 8, 2, 1	0, 8, 2, 1	3, 8, 2, 1	IV, I ₈ , I ₂ , I ₁	2 : 2
C2	0	1	0	324	324	1	2	-	8, 4, 4, 2	0, 4, 4, 2	3, 4, 2, 2	IV*, I ₄ , I ₄ , I ₂	2 : 1
D1	0	1	0	19	15	0	3	-	8, 3, 1, 1	0, 3, 1, 1	3, 3, 1, 1	IV*, I ₃ , I ₁ , I ₁	3 : 2
D2	0	1	0	-221	-1521	0	1	-	8, 1, 3, 3	0, 1, 3, 3	1, 1, 1, 3	IV*, I ₁ , I ₃ , I ₃	3 : 1
781	$N = 781 = 11 \cdot 71$ (2 isogeny classes)												781
A1	0	0	1	-1378	347	0	1	+	9, 1	9, 1	1, 1	I ₉ , I ₁	
B1	0	0	1	-808	8840	1	1	+	3, 1	3, 1	3, 1	I ₃ , I ₁	
782	$N = 782 = 2 \cdot 17 \cdot 23$ (5 isogeny classes)												782
A1	1	0	1	5	6	1	2	-	6, 1, 1	6, 1, 1	2, 1, 1	I ₆ , I ₁ , I ₁	2 : 2
A2	1	0	1	-35	54	1	2	+	3, 2, 2	3, 2, 2	1, 2, 2	I ₃ , I ₂ , I ₂	2 : 1
B1	1	0	0	-60	-184	0	1	-	3, 1, 1	3, 1, 1	3, 1, 1	I ₃ , I ₁ , I ₁	
C1	1	0	0	-99153	-12025559	0	2	+	14, 1, 4	14, 1, 4	14, 1, 2	I ₁₄ , I ₁ , I ₄	2 : 2
C2	1	0	0	-99793	-11862615	0	2	+	7, 2, 8	7, 2, 8	7, 2, 2	I ₇ , I ₂ , I ₈	2 : 1
D1	1	-1	1	0	1	0	1	-	1, 1, 1	1, 1, 1	1, 1, 1	I ₁ , I ₁ , I ₁	
E1	1	-1	1	-529	385	0	4	+	20, 1, 2	20, 1, 2	20, 1, 2	I ₂₀ , I ₁ , I ₂	2 : 2
E2	1	-1	1	-5649	-161407	0	4	+	10, 2, 4	10, 2, 4	10, 2, 4	I ₁₀ , I ₂ , I ₄	2 : 1, 3, 4
E3	1	-1	1	-90289	-10419775	0	2	+	5, 4, 2	5, 4, 2	5, 4, 2	I ₅ , I ₄ , I ₂	2 : 2
E4	1	-1	1	-2929	-319167	0	2	-	5, 1, 8	5, 1, 8	5, 1, 8	I ₅ , I ₁ , I ₈	2 : 2
784	$N = 784 = 2^4 \cdot 7^2$ (10 isogeny classes)												784
A1	0	1	0	-16	-29	1	1	+	4, 4	0, 0	1, 1	II, IV	
B1	0	0	0	-343	2401	1	1	+	4, 8	0, 0	1, 3	II, IV*	
C1	0	0	0	49	686	0	2	-	8, 7	0, 1	2, 2	I ₀ , I ₁ *	2 : 2
C2	0	0	0	-931	10290	0	4	+	10, 8	0, 2	4, 4	I ₂ , I ₂ *	2 : 1, 3, 4
C3	0	0	0	-2891	-47334	0	2	+	11, 10	0, 4	2, 4	I ₃ , I ₄ *	2 : 2
C4	0	0	0	-14651	682570	0	4	+	11, 7	0, 1	4, 4	I ₃ , I ₁ *	2 : 2
D1	0	-1	0	-800	8359	0	1	+	4, 10	0, 0	1, 1	II, II*	
E1	0	-1	0	-16	-1392	0	2	-	10, 7	0, 1	4, 4	I ₂ , I ₁ *	2 : 2
E2	0	-1	0	-1976	-32752	0	2	+	11, 8	0, 2	4, 4	I ₃ , I ₂ *	2 : 1
F1	0	0	0	-7	-7	0	1	+	4, 2	0, 0	1, 1	II, II	
G1	0	-1	0	-114	127	0	1	+	4, 8	0, 0	1, 1	II, IV*	3 : 2
G2	0	-1	0	-6974	226507	0	1	+	4, 8	0, 0	1, 1	II, IV*	3 : 1
H1	0	0	0	-35	98	1	2	-	12, 3	0, 0	4, 2	I ₄ , III*	2 : 2; 7 : 3
H2	0	0	0	-595	5586	1	2	+	12, 3	0, 0	2, 2	I ₄ , III	2 : 1; 7 : 4
H3	0	0	0	-1715	-33614	1	2	-	12, 9	0, 0	4, 2	I ₄ , III*	2 : 4; 7 : 1
H4	0	0	0	-29155	-1915998	1	2	+	12, 9	0, 0	2, 2	I ₄ , III*	2 : 3; 7 : 2
I1	0	1	0	-2	-1	1	1	+	4, 2	0, 0	1, 1	II, II	3 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
784	$N = 784 = 2^4 \cdot 7^2$ (continued)												784
J1	0	1	0	-408	6292	1	2	-	14, 7	2, 1	4, 4	I_6^*, I_1^*	2 : 2; 3 : 3
J2	0	1	0	-8248	285396	1	2	+	13, 8	1, 2	2, 4	I_5^*, I_2^*	2 : 1; 3 : 4
J3	0	1	0	3512	-133260	1	2	-	18, 9	6, 3	4, 4	I_{10}^*, I_3^*	2 : 4; 3 : 1, 5
J4	0	1	0	-27848	-1475468	1	2	+	15, 12	3, 6	2, 4	I_7^*, I_6^*	2 : 3; 3 : 2, 6
J5	0	1	0	-133688	-18913196	1	2	-	30, 7	18, 1	4, 4	I_{22}^*, I_1^*	2 : 6; 3 : 3
J6	0	1	0	-2140728	-1206278060	1	2	+	21, 8	9, 2	2, 4	I_{13}^*, I_2^*	2 : 5; 3 : 4
786	$N = 786 = 2 \cdot 3 \cdot 131$ (13 isogeny classes)												786
A1	1	1	0	-8	6	1	1	+	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	
B1	1	1	0	-281	1701	1	1	-	6, 3, 1	6, 3, 1	2, 1, 1	I_6, I_3, I_1	
C1	1	1	0	1217	6622405	1	1	-	9, 24, 1	9, 24, 1	1, 2, 1	I_9, I_{24}, I_1	
D1	1	1	0	-3418	-78356	0	1	+	3, 7, 1	3, 7, 1	1, 1, 1	I_3, I_7, I_1	
E1	1	1	0	-29	-3	0	2	+	12, 1, 1	12, 1, 1	2, 1, 1	I_{12}, I_1, I_1	2 : 2
E2	1	1	0	-349	2365	0	4	+	6, 2, 2	6, 2, 2	2, 2, 2	I_6, I_2, I_2	2 : 1, 3, 4
E3	1	1	0	-5589	158517	0	2	+	3, 4, 1	3, 4, 1	1, 2, 1	I_3, I_4, I_1	2 : 2
E4	1	1	0	-229	4165	0	2	-	3, 1, 4	3, 1, 4	1, 1, 4	I_3, I_1, I_4	2 : 2
F1	1	0	1	-40	92	0	3	+	1, 3, 1	1, 3, 1	1, 3, 1	I_1, I_3, I_1	3 : 2
F2	1	0	1	-145	-580	0	1	+	3, 1, 3	3, 1, 3	1, 1, 1	I_3, I_1, I_3	3 : 1
G1	1	0	1	-103	-406	1	1	+	11, 1, 1	11, 1, 1	1, 1, 1	I_{11}, I_1, I_1	
H1	1	0	1	-17	56	1	1	-	2, 7, 1	2, 7, 1	2, 7, 1	I_2, I_7, I_1	
I1	1	1	1	-71	-259	0	2	+	6, 3, 1	6, 3, 1	6, 1, 1	I_6, I_3, I_1	2 : 2
I2	1	1	1	-31	-499	0	2	-	3, 6, 2	3, 6, 2	3, 2, 2	I_3, I_6, I_2	2 : 1
J1	1	1	1	-861	9267	1	1	+	21, 1, 1	21, 1, 1	21, 1, 1	I_{21}, I_1, I_1	
K1	1	1	1	10	11	1	1	-	3, 4, 1	3, 4, 1	3, 2, 1	I_3, I_4, I_1	
L1	1	0	0	-42	36	1	1	+	7, 5, 1	7, 5, 1	7, 5, 1	I_7, I_5, I_1	
M1	1	0	0	-2135	35913	0	5	+	5, 15, 1	5, 15, 1	5, 15, 1	I_5, I_{15}, I_1	5 : 2
M2	1	0	0	-227045	-41659377	0	1	+	1, 3, 5	1, 3, 5	1, 3, 5	I_1, I_3, I_5	5 : 1
790	$N = 790 = 2 \cdot 5 \cdot 79$ (1 isogeny class)												790
A1	1	0	0	-25	57	1	2	-	8, 2, 1	8, 2, 1	8, 2, 1	I_8, I_2, I_1	2 : 2
A2	1	0	0	-425	3337	1	2	+	4, 1, 2	4, 1, 2	4, 1, 2	I_4, I_1, I_2	2 : 1
791	$N = 791 = 7 \cdot 113$ (3 isogeny classes)												791
A1	1	0	1	-31	117	0	2	-	3, 2	3, 2	1, 2	I_3, I_2	2 : 2
A2	1	0	1	-596	5541	0	2	+	6, 1	6, 1	2, 1	I_6, I_1	2 : 1
B1	1	0	1	-38	-93	0	2	-	1, 2	1, 2	1, 2	I_1, I_2	2 : 2
B2	1	0	1	-603	-5743	0	2	+	2, 1	2, 1	2, 1	I_2, I_1	2 : 1
C1	1	-1	1	-19	-14	1	4	+	4, 1	4, 1	4, 1	I_4, I_1	2 : 2
C2	1	-1	1	-264	-1582	1	4	+	2, 2	2, 2	2, 2	I_2, I_2	2 : 1, 3, 4
C3	1	-1	1	-4219	-104412	1	2	+	1, 1	1, 1	1, 1	I_1, I_1	2 : 2
C4	1	-1	1	-229	-2044	1	2	-	1, 4	1, 4	1, 4	I_1, I_4	2 : 2
792	$N = 792 = 2^3 \cdot 3^2 \cdot 11$ (7 isogeny classes)												792
A1	0	0	0	-135	-486	1	2	+	8, 9, 1	0, 0, 1	2, 2, 1	I^*, III^*, I_1	2 : 2

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792
 $N = 792 = 2^3 \cdot 3^2 \cdot 11$ (continued)
792

793	$N = 793 = 13 \cdot 61$ (1 isogeny class)	793
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794 $N = 794 = 2 \cdot 397$ (4 isogeny classes) **794**

795	$N = 795 = 3 \cdot 5 \cdot 53$ (4 isogeny classes)	795
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797	$N = 797 = 797$ (1 isogeny class)	797
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	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
798	$N = 798 = 2 \cdot 3 \cdot 7 \cdot 19$ (9 isogeny classes)												
A1	1	1	0	-10	4	1	2	+	4, 1, 2, 1	4, 1, 2, 1	2, 1, 2, 1	I_4, I_1, I_2, I_1	2 : 2
A2	1	1	0	-150	648	1	2	+	2, 2, 1, 2	2, 2, 1, 2	2, 2, 1, 2	I_2, I_2, I_1, I_2	2 : 1
B1	1	0	1	-80	-226	0	2	+	12, 1, 2, 1	12, 1, 2, 1	2, 1, 2, 1	I_{12}, I_1, I_2, I_1	2 : 2
B2	1	0	1	-400	2846	0	4	+	6, 2, 4, 2	6, 2, 4, 2	2, 2, 2, 2	I_6, I_2, I_4, I_2	2 : 1, 3, 4
B3	1	0	1	-6280	191006	0	2	+	3, 1, 2, 4	3, 1, 2, 4	1, 1, 2, 2	I_3, I_1, I_2, I_4	2 : 2
B4	1	0	1	360	12574	0	2	-	3, 4, 8, 1	3, 4, 8, 1	1, 4, 2, 1	I_3, I_4, I_8, I_1	2 : 2
C1	1	0	1	-92	326	1	2	+	2, 5, 2, 1	2, 5, 2, 1	2, 5, 2, 1	I_2, I_5, I_2, I_1	2 : 2
C2	1	0	1	-22	830	1	2	-	1, 10, 1, 2	1, 10, 1, 2	1, 10, 1, 2	I_1, I_{10}, I_1, I_2	2 : 1
D1	1	0	1	-162	-476	1	2	+	4, 5, 4, 1	4, 5, 4, 1	2, 5, 4, 1	I_4, I_5, I_4, I_1	2 : 2
D2	1	0	1	-1142	14420	1	4	+	2, 10, 2, 2	2, 10, 2, 2	2, 10, 2, 2	I_2, I_{10}, I_2, I_2	2 : 1, 3, 4
D3	1	0	1	-18152	939764	1	2	+	1, 5, 1, 4	1, 5, 1, 4	1, 5, 1, 2	I_1, I_5, I_1, I_4	2 : 2
D4	1	0	1	188	46340	1	2	-	1, 20, 1, 1	1, 20, 1, 1	1, 20, 1, 1	I_1, I_{20}, I_1, I_1	2 : 2
E1	1	0	1	-7801	264524	0	6	+	4, 9, 2, 1	4, 9, 2, 1	2, 9, 2, 1	I_4, I_9, I_2, I_1	2 : 2; 3 : 3
E2	1	0	1	-7941	254500	0	6	+	2, 18, 1, 2	2, 18, 1, 2	2, 18, 1, 2	I_2, I_{18}, I_1, I_2	2 : 1; 3 : 4
E3	1	0	1	-11176	13046	0	6	+	12, 3, 6, 3	12, 3, 6, 3	2, 3, 6, 3	I_{12}, I_3, I_6, I_3	2 : 4; 3 : 1, 5
E4	1	0	1	-120936	-16143626	0	6	+	6, 6, 3, 6	6, 6, 3, 6	2, 6, 3, 6	I_6, I_6, I_3, I_6	2 : 3; 3 : 2, 6
E5	1	0	1	-611671	-184179718	0	2	+	36, 1, 2, 1	36, 1, 2, 1	2, 1, 2, 1	I_{36}, I_1, I_2, I_1	2 : 6; 3 : 3
E6	1	0	1	-9786711	-11785100294	0	2	+	18, 2, 1, 2	18, 2, 1, 2	2, 2, 1, 2	I_{18}, I_2, I_1, I_2	2 : 5; 3 : 4
F1	1	0	1	-39	-86	0	2	+	8, 1, 2, 1	8, 1, 2, 1	2, 1, 2, 1	I_8, I_1, I_2, I_1	2 : 2
F2	1	0	1	-599	-5686	0	2	+	4, 2, 1, 2	4, 2, 1, 2	2, 2, 1, 2	I_4, I_2, I_1, I_2	2 : 1
G1	1	1	1	-354	-2193	1	2	+	10, 1, 2, 3	10, 1, 2, 3	10, 1, 2, 3	I_{10}, I_1, I_2, I_3	2 : 2
G2	1	1	1	766	-12049	1	2	-	5, 2, 1, 6	5, 2, 1, 6	5, 2, 1, 6	I_5, I_2, I_1, I_6	2 : 1
H1	1	0	0	-1015	11561	1	2	+	12, 7, 2, 1	12, 7, 2, 1	12, 7, 2, 1	I_{12}, I_7, I_2, I_1	2 : 2
H2	1	0	0	-3255	-57879	1	2	+	6, 14, 1, 2	6, 14, 1, 2	6, 14, 1, 2	I_6, I_{14}, I_1, I_2	2 : 1
I1	1	0	0	3	-15	0	2	-	8, 1, 1, 1	8, 1, 1, 1	8, 1, 1, 1	I_8, I_1, I_1, I_1	2 : 2
I2	1	0	0	-77	-255	0	4	+	4, 2, 2, 2	4, 2, 2, 2	4, 2, 2, 2	I_4, I_2, I_2, I_2	2 : 1, 3, 4
I3	1	0	0	-1217	-16443	0	2	+	2, 1, 4, 1	2, 1, 4, 1	2, 1, 2, 1	I_2, I_1, I_4, I_1	2 : 2
I4	1	0	0	-217	893	0	4	+	2, 4, 1, 4	2, 4, 1, 4	2, 4, 1, 4	I_2, I_4, I_1, I_4	2 : 2
799	$N = 799 = 17 \cdot 47$ (2 isogeny classes)												
A1	1	1	1	-16	16	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 2
A2	1	1	1	-251	1426	0	2	+	2, 1	2, 1	2, 1	I_2, I_1	2 : 1
B1	1	1	1	-118	418	1	2	+	3, 2	3, 2	3, 2	I_3, I_2	2 : 2
B2	1	1	1	-353	-2120	1	2	+	6, 1	6, 1	6, 1	I_6, I_1	2 : 1
800	$N = 800 = 2^5 \cdot 5^2$ (9 isogeny classes)												
A1	0	0	0	-25	0	1	4	+	6, 6	0, 0	2, 4	III, I_0^*	2 : 2, 3, 4
A2	0	0	0	-275	-1750	1	2	+	9, 6	0, 0	1, 2	I_0^*, I_0^*	2 : 1
A3	0	0	0	-275	1750	1	2	+	9, 6	0, 0	2, 2	I_0^*, I_0^*	2 : 1
A4	0	0	0	100	0	1	2	-	12, 6	0, 0	2, 4	I_3^*, I_0^*	2 : 1
B1	0	1	0	-8	8	1	1	-	9, 2	0, 0	2, 1	I_0^*, II	
C1	0	1	0	-158	-812	1	2	+	6, 7	0, 1	2, 2	III, I_1^*	2 : 2
C2	0	1	0	-33	-1937	1	2	-	12, 8	0, 2	4, 4	I_3^*, I_2^*	2 : 1
D1	0	0	0	-125	0	0	2	+	6, 9	0, 0	2, 2	III, III^*	2 : 2

TABLE 1: ELLIPTIC CURVES 800E–806D

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
800	$N = 800 = 2^5 \cdot 5^2$ (continued)												800
E1	0	1	0	-208	-1412	0	1	-	9, 8	0, 0	1, 3	I_0^*, IV^*	
F1	0	-1	0	-8	-8	0	1	-	9, 2	0, 0	1, 1	I_0^*, II	
G1	0	-1	0	-158	812	0	2	+	6, 7	0, 1	2, 2	III, I_1^*	2 : 2
G2	0	-1	0	-33	1937	0	2	-	12, 8	0, 2	2, 4	I_3^*, I_2^*	2 : 1
H1	0	0	0	-5	0	1	2	+	6, 3	0, 0	2, 2	III, III	2 : 2
H2	0	0	0	20	0	1	2	-	12, 3	0, 0	2, 2	I_3^*, III	2 : 1
I1	0	-1	0	-208	1412	1	1	-	9, 8	0, 0	2, 3	I_0^*, IV^*	
801	$N = 801 = 3^2 \cdot 89$ (4 isogeny classes)												801
A1	0	0	1	-3972	-169349	0	1	-	23, 1	17, 1	2, 1	I_{17}^*, I_1	
B1	1	-1	1	-14	-12	0	2	+	6, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
B2	1	-1	1	31	-102	0	2	-	6, 2	0, 2	2, 2	I_0^*, I_2	2 : 1
C1	0	0	1	-30	-90	1	1	-	9, 1	3, 1	4, 1	I_3^*, I_1	3 : 2
C2	0	0	1	240	1233	1	3	-	7, 3	1, 3	4, 3	I_1^*, I_3	3 : 1
D1	1	-1	0	-9	-14	1	1	-	6, 1	0, 1	1, 1	I_0^*, I_1	
802	$N = 802 = 2 \cdot 401$ (2 isogeny classes)												802
A1	1	-1	1	2	-1	0	1	-	1, 1	1, 1	1, 1	I_1, I_1	
B1	1	0	0	-9	-11	0	2	+	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
B2	1	0	0	-19	15	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 1
804	$N = 804 = 2^2 \cdot 3 \cdot 67$ (4 isogeny classes)												804
A1	0	-1	0	59	-122	0	2	-	4, 5, 2	0, 5, 2	3, 1, 2	IV, I_5, I_2	2 : 2
A2	0	-1	0	-276	-792	0	2	+	8, 10, 1	0, 10, 1	3, 2, 1	IV^*, I_{10}, I_1	2 : 1
B1	0	-1	0	-1373	-19191	1	1	-	8, 10, 1	0, 10, 1	3, 2, 1	IV^*, I_{10}, I_1	
C1	0	-1	0	-12	24	1	1	-	8, 1, 1	0, 1, 1	3, 1, 1	IV^*, I_1, I_1	
D1	0	1	0	84	36	1	1	-	8, 7, 1	0, 7, 1	3, 7, 1	IV^*, I_7, I_1	
805	$N = 805 = 5 \cdot 7 \cdot 23$ (4 isogeny classes)												805
A1	0	-1	1	23004	2393001	1	1	-	5, 11, 2	5, 11, 2	1, 1, 2	I_5, I_{11}, I_2	
B1	1	-1	1	-163	-758	0	2	+	2, 3, 1	2, 3, 1	2, 1, 1	I_2, I_3, I_1	2 : 2
B2	1	-1	1	-138	-1018	0	2	-	1, 6, 2	1, 6, 2	1, 2, 2	I_1, I_6, I_2	2 : 1
C1	1	-1	1	2	2356	0	4	-	2, 3, 4	2, 3, 4	2, 1, 4	I_2, I_3, I_4	2 : 2
C2	1	-1	1	-2643	52082	0	4	+	4, 6, 2	4, 6, 2	2, 2, 2	I_4, I_6, I_2	2 : 1, 3, 4
C3	1	-1	1	-5518	-79018	0	2	+	2, 12, 1	2, 12, 1	2, 2, 1	I_2, I_{12}, I_1	2 : 2
C4	1	-1	1	-42088	3333906	0	2	+	8, 3, 1	8, 3, 1	2, 1, 1	I_8, I_3, I_1	2 : 2
D1	0	0	1	-13	49	0	1	-	1, 3, 2	1, 3, 2	1, 1, 2	I_1, I_3, I_2	
806	$N = 806 = 2 \cdot 13 \cdot 31$ (6 isogeny classes)												806
A1	1	0	1	-3	30	1	1	-	5, 1, 2	5, 1, 2	1, 1, 2	I_5, I_1, I_2	
B1	1	1	0	52	-176	1	1	-	11, 1, 2	11, 1, 2	1, 1, 2	I_{11}, I_1, I_2	
C1	1	0	0	-97	361	1	1	-	5, 1, 2	5, 1, 2	5, 1, 2	I_5, I_1, I_2	

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
806	$N = 806 = 2 \cdot 13 \cdot 31$ (continued)												806
E1	1	0	0	2511	39401	0	3	–	27, 1, 2	27, 1, 2	27, 1, 2	I_{27}, I_1, I_2	3 : 2
E2	1	0	0	–25649	–2195479	0	3	–	9, 3, 6	9, 3, 6	9, 3, 6	I_9, I_3, I_6	3 : 1, 3
E3	1	0	0	–2293609	–1337178239	0	1	–	3, 9, 2	3, 9, 2	3, 9, 2	I_3, I_9, I_2	3 : 2
F1	1	1	1	–14105	638919	0	5	–	5, 5, 2	5, 5, 2	5, 5, 2	I_5, I_5, I_2	5 : 2
F2	1	1	1	66885	2264179	0	1	–	1, 1, 10	1, 1, 10	1, 1, 10	I_1, I_1, I_{10}	5 : 1
807	$N = 807 = 3 \cdot 269$ (1 isogeny class)												807
A1	0	1	1	–49	115	0	3	+	6, 1	6, 1	6, 1	I_6, I_1	3 : 2
A2	0	1	1	–409	–3260	0	1	+	2, 3	2, 3	2, 1	I_2, I_3	3 : 1
808	$N = 808 = 2^3 \cdot 101$ (2 isogeny classes)												808
A1	0	0	0	–11	–26	0	1	–	11, 1	0, 1	1, 1	II^*, I_1	
B1	0	–1	0	–129	–523	0	1	+	8, 1	0, 1	2, 1	I_1^*, I_1	
810	$N = 810 = 2 \cdot 3^4 \cdot 5$ (8 isogeny classes)												810
A1	1	–1	0	–9	15	0	3	–	1, 4, 3	1, 0, 3	1, 1, 3	I_1, II, I_3	3 : 2
A2	1	–1	0	66	–100	0	1	–	3, 12, 1	3, 0, 1	1, 1, 1	I_3, II^*, I_1	3 : 1
B1	1	–1	0	36	120	0	3	–	3, 4, 6	3, 0, 6	1, 1, 6	I_3, II, I_6	3 : 2
B2	1	–1	0	–339	–4555	0	1	–	9, 12, 2	9, 0, 2	1, 1, 2	I_9, II^*, I_2	3 : 1
C1	1	–1	0	–114	–10252	0	3	–	5, 6, 9	5, 0, 9	1, 3, 9	I_5, IV, I_9	3 : 2
C2	1	–1	0	–39489	–3010627	0	1	–	15, 10, 3	15, 0, 3	1, 3, 3	I_{15}, IV^*, I_3	3 : 1
D1	1	–1	0	–24	80	1	3	–	4, 6, 3	4, 0, 3	2, 3, 3	I_4, IV, I_3	3 : 2
D2	1	–1	0	201	–1315	1	1	–	12, 10, 1	12, 0, 1	2, 1, 1	I_{12}, IV^*, I_1	3 : 1
E1	1	–1	1	7	1	0	3	–	3, 6, 1	3, 0, 1	3, 3, 1	I_3, IV, I_1	3 : 2
E2	1	–1	1	–83	–323	0	1	–	1, 10, 3	1, 0, 3	1, 3, 1	I_1, IV^*, I_3	3 : 1
F1	1	–1	1	22	41	0	3	–	12, 4, 1	12, 0, 1	12, 1, 1	I_{12}, II, I_1	3 : 2
F2	1	–1	1	–218	–1943	0	1	–	4, 12, 3	4, 0, 3	4, 1, 1	I_4, II^*, I_3	3 : 1
G1	1	–1	1	–4388	112967	0	3	–	15, 4, 3	15, 0, 3	15, 1, 1	I_{15}, II, I_3	3 : 2
G2	1	–1	1	–1028	277831	0	1	–	5, 12, 9	5, 0, 9	5, 1, 1	I_5, II^*, I_9	3 : 1
H1	1	–1	1	–38	181	1	3	–	9, 6, 2	9, 0, 2	9, 3, 2	I_9, IV, I_2	3 : 2
H2	1	–1	1	322	–3563	1	1	–	3, 10, 6	3, 0, 6	3, 1, 2	I_3, IV^*, I_6	3 : 1
811	$N = 811 = 811$ (1 isogeny class)												811
A1	0	0	1	–2	–2	1	1	–	1	1	1	I_1	
812	$N = 812 = 2^2 \cdot 7 \cdot 29$ (2 isogeny classes)												812
A1	0	0	0	–40	–124	0	1	–	8, 3, 1	0, 3, 1	3, 1, 1	IV^*, I_3, I_1	
B1	0	–1	0	–36	232	1	1	–	8, 4, 1	0, 4, 1	3, 4, 1	IV^*, I_4, I_1	
813	$N = 813 = 3 \cdot 271$ (2 isogeny classes)												813
A1	0	1	1	–2	–1	0	1	+	1, 1	1, 1	1, 1	I_1, I_1	
B1	0	1	1	–73	190	1	3	+	9, 1	9, 1	9, 1	I_9, I_1	3 : 2
B2	0	1	1	–1423	–21113	1	3	+	3, 3	3, 3	3, 3	I_2, I_2	3 : 1, 3

TABLE 1: ELLIPTIC CURVES 814A–819D

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
814	$N = 814 = 2 \cdot 11 \cdot 37$ (2 isogeny classes)												814
A1	1	0	1	5	30	1	3	−	3, 3, 1	3, 3, 1	1, 3, 1	I_3, I_3, I_1	3 : 2
A2	1	0	1	−50	−828	1	1	−	9, 1, 3	9, 1, 3	1, 1, 3	I_9, I_1, I_3	3 : 1
B1	1	−1	1	−28	63	1	1	−	5, 1, 1	5, 1, 1	5, 1, 1	I_5, I_1, I_1	
815	$N = 815 = 5 \cdot 163$ (1 isogeny class)												815
A1	0	1	1	15	−69	1	3	−	6, 1	6, 1	6, 1	I_6, I_1	3 : 2
A2	0	1	1	−985	−12244	1	1	−	2, 3	2, 3	2, 3	I_2, I_3	3 : 1
816	$N = 816 = 2^4 \cdot 3 \cdot 17$ (10 isogeny classes)												816
A1	0	−1	0	−48	144	1	2	+	10, 2, 1	0, 2, 1	4, 2, 1	I_2^*, I_2, I_1	2 : 2
A2	0	−1	0	−8	336	1	2	−	11, 4, 2	0, 4, 2	2, 2, 2	I_3^*, I_4, I_2	2 : 1
B1	0	−1	0	−52	−128	0	2	+	8, 2, 1	0, 2, 1	2, 2, 1	I_0^*, I_2, I_1	2 : 2
B2	0	−1	0	−72	0	0	4	+	10, 4, 2	0, 4, 2	4, 2, 2	I_2^*, I_4, I_2	2 : 1, 3, 4
B3	0	−1	0	−752	8160	0	2	+	11, 8, 1	0, 8, 1	2, 2, 1	I_3^*, I_8, I_1	2 : 2
B4	0	−1	0	288	−288	0	4	−	11, 2, 4	0, 2, 4	4, 2, 4	I_3^*, I_2, I_4	2 : 2
C1	0	−1	0	−17	−51	0	1	−	8, 5, 1	0, 5, 1	1, 1, 1	I_0^*, I_5, I_1	
D1	0	1	0	511	1899	0	1	−	8, 3, 5	0, 3, 5	1, 3, 1	I_0^*, I_3, I_5	
E1	0	−1	0	−4088	−99216	0	2	+	18, 6, 1	6, 6, 1	4, 2, 1	I_{10}^*, I_6, I_1	2 : 2; 3 : 3
E2	0	−1	0	−3448	−131984	0	2	−	15, 12, 2	3, 12, 2	4, 2, 2	I_7^*, I_{12}, I_2	2 : 1; 3 : 4
E3	0	−1	0	−12008	386928	0	2	+	30, 2, 3	18, 2, 3	4, 2, 1	I_{22}^*, I_2, I_3	2 : 4; 3 : 1
E4	0	−1	0	28952	2418544	0	2	−	21, 4, 6	9, 4, 6	4, 2, 2	I_{13}^*, I_4, I_6	2 : 3; 3 : 2
F1	0	−1	0	11	61	0	1	−	12, 3, 1	0, 3, 1	1, 1, 1	II^*, I_3, I_1	3 : 2
F2	0	−1	0	−949	11581	0	1	−	12, 1, 3	0, 1, 3	1, 1, 1	II^*, I_1, I_3	3 : 1
G1	0	−1	0	−5	9	1	1	−	8, 1, 1	0, 1, 1	2, 1, 1	I_0^*, I_1, I_1	
H1	0	−1	0	−544	−4352	1	2	+	20, 4, 1	8, 4, 1	4, 2, 1	I_{12}^*, I_4, I_1	2 : 2
H2	0	−1	0	−1824	25344	1	4	+	16, 8, 2	4, 8, 2	4, 2, 2	I_8^*, I_8, I_2	2 : 1, 3, 4
H3	0	−1	0	−27744	1787904	1	8	+	14, 4, 4	2, 4, 4	4, 2, 4	I_6^*, I_4, I_4	2 : 2, 5, 6
H4	0	−1	0	3616	142848	1	2	−	14, 16, 1	2, 16, 1	2, 2, 1	I_6^*, I_{16}, I_1	2 : 2
H5	0	−1	0	−443904	113984640	1	4	+	13, 2, 2	1, 2, 2	4, 2, 2	I_5^*, I_2, I_2	2 : 3
H6	0	−1	0	−26304	1980288	1	4	−	13, 2, 8	1, 2, 8	2, 2, 8	I_5^*, I_2, I_8	2 : 3
I1	0	1	0	−1621	24623	1	1	−	8, 11, 1	0, 11, 1	2, 11, 1	I_0^*, I_{11}, I_1	
J1	0	1	0	−40	−76	1	2	+	14, 2, 1	2, 2, 1	4, 2, 1	I_6^*, I_2, I_1	2 : 2
J2	0	1	0	120	−396	1	2	−	13, 4, 2	1, 4, 2	4, 4, 2	I_5^*, I_4, I_2	2 : 1
817	$N = 817 = 19 \cdot 43$ (2 isogeny classes)												817
A1	0	1	1	1	6	2	1	−	2, 1	2, 1	2, 1	I_2, I_1	
B1	0	1	1	−16649	821406	1	1	−	2, 5	2, 5	2, 5	I_2, I_5	
819	$N = 819 = 3^2 \cdot 7 \cdot 13$ (6 isogeny classes)												819
A1	1	−1	0	−42	−73	1	2	+	9, 1, 1	0, 1, 1	2, 1, 1	III^*, I_1, I_1	2 : 2
A2	1	−1	0	93	−532	1	2	−	9, 2, 2	0, 2, 2	2, 2, 2	III^*, I_2, I_2	2 : 1
B1	1	−1	1	−5	4	1	2	+	3, 1, 1	0, 1, 1	2, 1, 1	III, I_1, I_1	2 : 2
B2	1	−1	1	10	16	1	2	−	3, 2, 2	0, 2, 2	2, 2, 2	III, I_2, I_2	2 : 1
C1	0	0	1	9	−7	0	1	−	6, 1, 1	0, 1, 1	2, 1, 1	I_0^*, I_1, I_1	

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
819	$N = 819 = 3^2 \cdot 7 \cdot 13$ (continued)												819
E1	0	0	1	−66	−207	0	1	−	6, 1, 1	0, 1, 1	2, 1, 1	I_0^*, I_1, I_1	3 : 2
E2	0	0	1	114	−1026	0	3	−	6, 3, 3	0, 3, 3	2, 3, 3	I_0^*, I_3, I_3	3 : 1, 3
E3	0	0	1	−1056	32553	0	3	−	6, 9, 1	0, 9, 1	2, 9, 1	I_0^*, I_9, I_1	3 : 2
F1	0	0	1	−237	−1607	0	1	−	10, 3, 1	4, 3, 1	2, 3, 1	I_4^*, I_3, I_1	
822	$N = 822 = 2 \cdot 3 \cdot 137$ (6 isogeny classes)												822
A1	1	1	0	−3	−9	1	1	−	1, 4, 1	1, 4, 1	1, 2, 1	I_1, I_4, I_1	
B1	1	0	1	−18716	−987046	0	2	+	10, 8, 1	10, 8, 1	2, 8, 1	I_{10}, I_8, I_1	2 : 2
B2	1	0	1	−18556	−1004710	0	2	−	5, 16, 2	5, 16, 2	1, 16, 2	I_5, I_{16}, I_2	2 : 1
C1	1	0	1	−1122	14548	0	3	−	5, 12, 1	5, 12, 1	1, 12, 1	I_5, I_{12}, I_1	3 : 2
C2	1	0	1	4143	72868	0	1	−	15, 4, 3	15, 4, 3	1, 4, 1	I_{15}, I_4, I_3	3 : 1
D1	1	0	1	31	20	1	1	−	6, 5, 1	6, 5, 1	2, 5, 1	I_6, I_5, I_1	
E1	1	0	0	−47	57	0	4	+	12, 2, 1	12, 2, 1	12, 2, 1	I_{12}, I_2, I_1	2 : 2
E2	1	0	0	−367	−2695	0	4	+	6, 4, 2	6, 4, 2	6, 4, 2	I_6, I_4, I_2	2 : 1, 3, 4
E3	1	0	0	−5847	−172575	0	2	+	3, 8, 1	3, 8, 1	3, 8, 1	I_3, I_8, I_1	2 : 2
E4	1	0	0	−7	−7663	0	2	−	3, 2, 4	3, 2, 4	3, 2, 4	I_3, I_2, I_4	2 : 2
F1	1	0	0	−4	−4	0	1	−	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	
825	$N = 825 = 3 \cdot 5^2 \cdot 11$ (3 isogeny classes)												825
A1	0	−1	1	−23	53	1	1	−	3, 2, 2	3, 0, 2	1, 1, 2	I_3, II, I_2	3 : 2
A2	0	−1	1	127	38	1	1	−	1, 2, 6	1, 0, 6	1, 1, 2	I_1, II, I_6	3 : 1
B1	1	0	0	−163	−808	1	2	+	3, 6, 1	3, 0, 1	3, 2, 1	I_3, I_0^*, I_1	2 : 2
B2	1	0	0	−288	567	1	4	+	6, 6, 2	6, 0, 2	6, 4, 2	I_6, I_0^*, I_2	2 : 1, 3, 4
B3	1	0	0	−3663	84942	1	2	+	3, 6, 4	3, 0, 4	3, 2, 4	I_3, I_0^*, I_4	2 : 2
B4	1	0	0	1087	4692	1	2	−	12, 6, 1	12, 0, 1	12, 4, 1	I_{12}, I_0^*, I_1	2 : 2
C1	0	1	1	−583	5494	1	3	−	3, 8, 2	3, 0, 2	3, 3, 2	I_3, IV^*, I_2	3 : 2
C2	0	1	1	3167	11119	1	1	−	1, 8, 6	1, 0, 6	1, 1, 2	I_1, IV^*, I_6	3 : 1
826	$N = 826 = 2 \cdot 7 \cdot 59$ (2 isogeny classes)												826
A1	1	1	0	21	−49	0	1	−	1, 5, 1	1, 5, 1	1, 1, 1	I_1, I_5, I_1	
B1	1	1	0	−136	−672	0	1	−	5, 3, 1	5, 3, 1	1, 3, 1	I_5, I_3, I_1	
827	$N = 827 = 827$ (1 isogeny class)												827
A1	0	0	1	−10	12	1	1	−	1	1	1	I_1	
828	$N = 828 = 2^2 \cdot 3^2 \cdot 23$ (4 isogeny classes)												828
A1	0	0	0	−24	45	0	2	+	4, 3, 1	0, 0, 1	1, 2, 1	IV, III, I_1	2 : 2
A2	0	0	0	−39	−18	0	2	+	8, 3, 2	0, 0, 2	1, 2, 2	IV^*, III, I_2	2 : 1
B1	0	0	0	−216	−1215	1	2	+	4, 9, 1	0, 0, 1	3, 2, 1	IV, III^*, I_1	2 : 2
B2	0	0	0	−351	486	1	2	+	8, 9, 2	0, 0, 2	3, 2, 2	IV^*, III^*, I_2	2 : 1
C1	0	0	0	−9	−27	1	1	−	4, 6, 1	0, 0, 1	1, 1, 1	IV, I_0^*, I_1	
D1	0	0	0	15	−11	0	1	−	4, 6, 1	0, 0, 1	1, 1, 1	IV, I_0^*, I_1	3 : 2

TABLE 1: ELLIPTIC CURVES 829A–834C

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
829	$N = 829 = 829$ (1 isogeny class)												829
A1	0	0	1	-4	-3	1	1	+	1	1	1	I_1	
830	$N = 830 = 2 \cdot 5 \cdot 83$ (3 isogeny classes)												830
A1	1	0	1	37	-62	0	3	-	2, 6, 1	2, 6, 1	2, 6, 1	I_2, I_6, I_1	3 : 2
A2	1	0	1	-838	-9512	0	1	-	6, 2, 3	6, 2, 3	2, 2, 1	I_6, I_2, I_3	3 : 1
B1	1	1	1	-11185	456015	1	1	-	16, 8, 1	16, 8, 1	16, 8, 1	I_{16}, I_8, I_1	
C1	1	-1	1	3	69	1	1	-	10, 2, 1	10, 2, 1	10, 2, 1	I_{10}, I_2, I_1	
831	$N = 831 = 3 \cdot 277$ (1 isogeny class)												831
A1	1	0	0	-68	285	1	1	-	10, 1	10, 1	10, 1	I_{10}, I_1	
832	$N = 832 = 2^6 \cdot 13$ (10 isogeny classes)												832
A1	0	1	0	-1	31	1	1	-	15, 1	0, 1	4, 1	I_5^*, I_1	
B1	0	-1	0	-1	-31	1	1	-	15, 1	0, 1	4, 1	I_5^*, I_1	
C1	0	-1	0	31	97	1	1	-	19, 1	1, 1	4, 1	I_9^*, I_1	3 : 2
C2	0	-1	0	-289	-3679	1	1	-	21, 3	3, 3	4, 1	I_{11}^*, I_3	3 : 1, 3
C3	0	-1	0	-29409	-1931423	1	1	-	27, 1	9, 1	4, 1	I_{17}^*, I_1	3 : 2
D1	0	0	0	-16	-24	0	2	+	10, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
D2	0	0	0	4	-80	0	2	-	14, 2	0, 2	2, 2	I_4^*, I_2	2 : 1
E1	0	-1	0	-65	-191	0	1	-	17, 1	0, 1	2, 1	I_7^*, I_1	
F1	0	0	0	-172	1328	0	1	-	25, 1	7, 1	2, 1	I_{15}^*, I_1	7 : 2
F2	0	0	0	-13612	-670672	0	1	-	19, 7	1, 7	2, 7	I_9^*, I_7	7 : 1
G1	0	1	0	31	-97	0	1	-	19, 1	1, 1	2, 1	I_9^*, I_1	3 : 2
G2	0	1	0	-289	3679	0	1	-	21, 3	3, 3	2, 1	I_{11}^*, I_3	3 : 1, 3
G3	0	1	0	-29409	1931423	0	1	-	27, 1	9, 1	2, 1	I_{17}^*, I_1	3 : 2
H1	0	0	0	-16	24	1	2	+	10, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
H2	0	0	0	4	80	1	2	-	14, 2	0, 2	4, 2	I_4^*, I_2	2 : 1
I1	0	1	0	-65	191	1	1	-	17, 1	0, 1	4, 1	I_7^*, I_1	
J1	0	0	0	-172	-1328	1	1	-	25, 1	7, 1	4, 1	I_{15}^*, I_1	7 : 2
J2	0	0	0	-13612	670672	1	1	-	19, 7	1, 7	4, 7	I_9^*, I_7	7 : 1
833	$N = 833 = 7^2 \cdot 17$ (1 isogeny class)												833
A1	1	-1	1	-34	-24	0	2	+	6, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
A2	1	-1	1	-279	1838	0	4	+	6, 2	0, 2	4, 2	I_0^*, I_2	2 : 1, 3, 4
A3	1	-1	1	-4444	115126	0	2	+	6, 1	0, 1	2, 1	I_0^*, I_1	2 : 2
A4	1	-1	1	-34	4778	0	2	-	6, 4	0, 4	2, 2	I_0^*, I_4	2 : 2
834	$N = 834 = 2 \cdot 3 \cdot 139$ (7 isogeny classes)												834
A1	1	0	1	-11795	-233746	0	2	+	28, 7, 1	28, 7, 1	2, 7, 1	I_{28}, I_7, I_1	2 : 2
A2	1	0	1	-93715	10874606	0	4	+	14, 14, 2	14, 14, 2	2, 14, 2	I_{14}, I_{14}, I_2	2 : 1, 3, 4
A3	1	0	1	-1493395	702316526	0	2	+	7, 7, 4	7, 7, 4	1, 7, 2	I_7, I_7, I_4	2 : 2
A4	1	0	1	-4755	30694894	0	2	-	7, 28, 1	7, 28, 1	1, 28, 1	I_7, I_{28}, I_1	2 : 2
B1	1	0	1	-60	-182	0	1	-	4, 1, 1	4, 1, 1	2, 1, 1	I_4, I_1, I_1	

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
834	$N = 834 = 2 \cdot 3 \cdot 139$ (continued)												834
D1	1	1	1	-8	5	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
D2	1	1	1	2	29	0	2	-	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1
E1	1	1	1	2	-1	1	1	-	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	
F1	1	1	1	-1027	12257	1	1	-	14, 4, 1	14, 4, 1	14, 2, 1	I_{14}, I_4, I_1	
G1	1	0	0	-70	356	1	5	-	10, 5, 1	10, 5, 1	10, 5, 1	I_{10}, I_5, I_1	5 : 2
G2	1	0	0	-1090	-40504	1	1	-	2, 1, 5	2, 1, 5	2, 1, 1	I_2, I_1, I_5	5 : 1
836	$N = 836 = 2^2 \cdot 11 \cdot 19$ (2 isogeny classes)												836
A1	0	-1	0	-5	-47	1	1	-	8, 1, 2	0, 1, 2	1, 1, 2	IV^*, I_1, I_2	
B1	0	-1	0	3	-10	0	2	-	4, 2, 1	0, 2, 1	3, 2, 1	IV, I_2, I_1	2 : 2
B2	0	-1	0	-52	-120	0	2	+	8, 1, 2	0, 1, 2	3, 1, 2	IV^*, I_1, I_2	2 : 1
840	$N = 840 = 2^3 \cdot 3 \cdot 5 \cdot 7$ (10 isogeny classes)												840
A1	0	-1	0	-316	-2060	1	2	+	8, 3, 1, 1	0, 3, 1, 1	2, 1, 1, 1	I_1^*, I_3, I_1, I_1	2 : 2
A2	0	-1	0	-336	-1764	1	4	+	10, 6, 2, 2	0, 6, 2, 2	2, 2, 2, 2	III^*, I_6, I_2, I_2	2 : 1, 3, 4
A3	0	-1	0	-1736	26796	1	2	+	11, 12, 1, 1	0, 12, 1, 1	1, 2, 1, 1	II^*, I_{12}, I_1, I_1	2 : 2
A4	0	-1	0	744	-11700	1	2	-	11, 3, 4, 4	0, 3, 4, 4	1, 1, 2, 2	II^*, I_3, I_4, I_4	2 : 2
B1	0	-1	0	9	-84	0	4	-	4, 1, 2, 4	0, 1, 2, 4	2, 1, 2, 4	III, I_1, I_2, I_4	2 : 2
B2	0	-1	0	-236	-1260	0	4	+	8, 2, 4, 2	0, 2, 4, 2	2, 2, 2, 2	I_1^*, I_2, I_4, I_2	2 : 1, 3, 4
B3	0	-1	0	-3736	-86660	0	2	+	10, 4, 2, 1	0, 4, 2, 1	2, 2, 2, 1	III^*, I_4, I_2, I_1	2 : 2
B4	0	-1	0	-656	4956	0	2	+	10, 1, 8, 1	0, 1, 8, 1	2, 1, 2, 1	III^*, I_1, I_8, I_1	2 : 2
C1	0	-1	0	-15	12	0	4	+	4, 1, 4, 1	0, 1, 4, 1	2, 1, 4, 1	III, I_1, I_4, I_1	2 : 2
C2	0	-1	0	-140	-588	0	4	+	8, 2, 2, 2	0, 2, 2, 2	2, 2, 2, 2	I_1^*, I_2, I_2, I_2	2 : 1, 3, 4
C3	0	-1	0	-2240	-40068	0	2	+	10, 1, 1, 1	0, 1, 1, 1	2, 1, 1, 1	III^*, I_1, I_1, I_1	2 : 2
C4	0	-1	0	-40	-1508	0	2	-	10, 4, 1, 4	0, 4, 1, 4	2, 2, 1, 2	III^*, I_4, I_1, I_4	2 : 2
D1	0	1	0	-27991	-1811530	0	2	+	4, 5, 8, 3	0, 5, 8, 3	2, 5, 2, 1	III, I_5, I_8, I_3	2 : 2
D2	0	1	0	-31116	-1385280	0	4	+	8, 10, 4, 6	0, 10, 4, 6	2, 10, 2, 2	I_1^*, I_{10}, I_4, I_6	2 : 1, 3, 4
D3	0	1	0	-202616	34012320	0	4	+	10, 20, 2, 3	0, 20, 2, 3	2, 20, 2, 1	III^*, I_{20}, I_2, I_3	2 : 2
D4	0	1	0	90384	-9452880	0	2	-	10, 5, 2, 12	0, 5, 2, 12	2, 5, 2, 2	III^*, I_5, I_2, I_{12}	2 : 2
E1	0	-1	0	9	0	1	2	-	4, 4, 1, 1	0, 4, 1, 1	2, 2, 1, 1	III, I_4, I_1, I_1	2 : 2
E2	0	-1	0	-36	36	1	4	+	8, 2, 2, 2	0, 2, 2, 2	4, 2, 2, 2	I_1^*, I_2, I_2, I_2	2 : 1, 3, 4
E3	0	-1	0	-336	-2244	1	2	+	10, 1, 1, 4	0, 1, 1, 4	2, 1, 1, 4	III^*, I_1, I_1, I_4	2 : 2
E4	0	-1	0	-456	3900	1	2	+	10, 1, 4, 1	0, 1, 4, 1	2, 1, 2, 1	III^*, I_1, I_4, I_1	2 : 2
F1	0	-1	0	-175	952	1	4	+	4, 1, 2, 1	0, 1, 2, 1	2, 1, 2, 1	III, I_1, I_2, I_1	2 : 2
F2	0	-1	0	-180	900	1	8	+	8, 2, 4, 2	0, 2, 4, 2	4, 2, 4, 2	I_1^*, I_2, I_4, I_2	2 : 1, 3, 4
F3	0	-1	0	-680	-5700	1	4	+	10, 4, 2, 4	0, 4, 2, 4	2, 2, 2, 2	III^*, I_4, I_2, I_4	2 : 2, 5, 6
F4	0	-1	0	240	4092	1	4	-	10, 1, 8, 1	0, 1, 8, 1	2, 1, 8, 1	III^*, I_1, I_8, I_1	2 : 2
F5	0	-1	0	-10480	-409460	1	2	+	11, 8, 1, 2	0, 8, 1, 2	1, 2, 1, 2	II^*, I_8, I_1, I_2	2 : 3
F6	0	-1	0	1120	-32340	1	2	-	11, 2, 1, 8	0, 2, 1, 8	1, 2, 1, 2	II^*, I_2, I_1, I_8	2 : 3
G1	0	-1	0	-735	7920	0	4	+	4, 2, 1, 2	0, 2, 1, 2	2, 2, 1, 2	III, I_2, I_1, I_2	2 : 2
G2	0	-1	0	-740	7812	0	8	+	8, 4, 2, 4	0, 4, 2, 4	4, 2, 2, 4	I_1^*, I_4, I_2, I_4	2 : 1, 3, 4
G3	0	-1	0	-1720	-16100	0	4	+	10, 8, 4, 2	0, 8, 4, 2	2, 2, 4, 2	III^*, I_8, I_4, I_2	2 : 2, 5, 6
G4	0	-1	0	160	24732	0	4	-	10, 2, 1, 8	0, 2, 1, 8	2, 2, 1, 8	III^*, I_2, I_1, I_8	2 : 2
G5	0	-1	0	-24400	-1458548	0	2	+	11, 4, 8, 1	0, 4, 8, 1	1, 2, 8, 1	II^*, I_4, I_8, I_1	2 : 3

227

840
 $N = 840 = 2^3 \cdot 3 \cdot 5 \cdot 7$ (continued)
840

842 $N = 842 = 2 \cdot 421$ (2 isogeny classes) **842**

843	$N = 843 = 3 \cdot 281$ (1 isogeny class)	843
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845	$N = 845 = 5 \cdot 13^2$ (1 isogeny class)	845
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846	$N = 846 = 2 \cdot 3^2 \cdot 47$ (3 isogeny classes)	846
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$$\overline{847} \quad N = 847 = 7 \cdot 11^2 \quad (3 \text{ isogeny classes}) \quad \overline{847}$$

848	$N = 848 = 2^4 \cdot 53$ (7 isogeny classes)	848
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	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
848	$N = 848 = 2^4 \cdot 53$ (continued)												848
B1	0	-1	0	-4528	150464	0	1	-	36, 1	24, 1	2, 1	I_{28}^*, I_1	3 : 2
B2	0	-1	0	-393648	95194048	0	1	-	20, 3	8, 3	2, 1	I_{12}^*, I_3	3 : 1
C1	0	-1	0	16	-64	0	1	-	15, 1	3, 1	2, 1	I_7^*, I_1	3 : 2
C2	0	-1	0	-144	1856	0	1	-	13, 3	1, 3	2, 1	I_5^*, I_3	3 : 1
D1	0	1	0	-12	40	0	2	-	8, 2	0, 2	1, 2	I_0^*, I_2	2 : 2
D2	0	1	0	-17	22	0	2	+	4, 1	0, 1	1, 1	II, I_1	2 : 1
E1	0	0	0	5	-22	0	1	-	12, 1	0, 1	2, 1	I_4^*, I_1	
F1	0	1	0	-4	-8	1	1	-	8, 1	0, 1	1, 1	I_0^*, I_1	
G1	0	1	0	-440	3412	1	1	-	17, 1	5, 1	4, 1	I_9^*, I_1	
849	$N = 849 = 3 \cdot 283$ (1 isogeny class)												849
A1	1	1	1	5	-4	1	1	-	4, 1	4, 1	2, 1	I_4, I_1	
850	$N = 850 = 2 \cdot 5^2 \cdot 17$ (12 isogeny classes)												850
A1	1	1	0	9975	-114875	0	1	-	21, 9, 1	21, 3, 1	1, 2, 1	I_{21}, I_3^*, I_1	3 : 2
A2	1	1	0	-166025	-26946875	0	1	-	7, 15, 3	7, 9, 3	1, 2, 3	I_7, I_9^*, I_3	3 : 1
B1	1	1	0	-75	125	0	2	+	6, 6, 1	6, 0, 1	2, 2, 1	I_6, I_0^*, I_1	2 : 2; 3 : 3
B2	1	1	0	-1075	13125	0	2	+	3, 6, 2	3, 0, 2	1, 2, 2	I_3, I_0^*, I_2	2 : 1; 3 : 4
B3	1	1	0	-2575	-51375	0	2	+	2, 6, 3	2, 0, 3	2, 2, 3	I_2, I_0^*, I_3	2 : 4; 3 : 1
B4	1	1	0	-2825	-41125	0	2	+	1, 6, 6	1, 0, 6	1, 2, 6	I_1, I_0^*, I_6	2 : 3; 3 : 2
C1	1	0	1	-451	4798	1	1	-	7, 9, 1	7, 0, 1	1, 2, 1	I_7, III^*, I_1	
D1	1	0	1	33924	-387702	1	1	-	4, 8, 7	4, 0, 7	2, 1, 7	I_4, IV^*, I_7	
E1	1	-1	0	8	16	1	1	-	4, 4, 1	4, 0, 1	2, 3, 1	I_4, IV, I_1	
F1	1	1	1	1357	-2559	0	1	-	4, 2, 7	4, 0, 7	4, 1, 1	I_4, II, I_7	
G1	1	1	1	-188	781	0	2	+	4, 8, 1	4, 2, 1	4, 2, 1	I_4, I_2^*, I_1	2 : 2
G2	1	1	1	312	4781	0	2	-	2, 10, 2	2, 4, 2	2, 4, 2	I_2, I_4^*, I_2	2 : 1
H1	1	1	1	-63838	6181531	0	2	+	8, 8, 3	8, 2, 3	8, 2, 1	I_8, I_2^*, I_3	2 : 2; 3 : 3
H2	1	1	1	-61838	6589531	0	2	-	4, 10, 6	4, 4, 6	4, 4, 2	I_4, I_4^*, I_6	2 : 1; 3 : 4
H3	1	1	1	-104213	-2590469	0	2	+	24, 12, 1	24, 6, 1	24, 2, 1	I_{24}, I_6^*, I_1	2 : 4; 3 : 1
H4	1	1	1	407787	-19998469	0	2	-	12, 18, 2	12, 12, 2	12, 4, 2	I_{12}, I_{12}^*, I_2	2 : 3; 3 : 2
I1	1	-1	1	195	2197	0	1	-	4, 10, 1	4, 0, 1	4, 1, 1	I_4, II^*, I_1	
J1	1	-1	1	-255	-1503	0	1	-	1, 7, 1	1, 1, 1	1, 2, 1	I_1, I_1^*, I_1	
K1	1	1	1	-63	781	1	1	-	3, 9, 1	3, 3, 1	3, 4, 1	I_3, I_3^*, I_1	3 : 2
K2	1	1	1	562	-20469	1	1	-	9, 7, 3	9, 1, 3	9, 4, 3	I_9, I_1^*, I_3	3 : 1
L1	1	1	1	-18	31	1	1	-	7, 3, 1	7, 0, 1	7, 2, 1	I_7, III, I_1	
851	$N = 851 = 23 \cdot 37$ (1 isogeny class)												851
A1	0	1	1	-28	48	1	1	+	2, 1	2, 1	2, 1	I_2, I_1	
854	$N = 854 = 2 \cdot 7 \cdot 61$ (4 isogeny classes)												854
A1	1	0	1	-722	7396	1	1	+	10, 3, 1	10, 3, 1	2, 1, 1	I_{10}, I_3, I_1	
B1	1	0	1	-2706	53940	1	3	+	4, 1, 1	4, 1, 1	2, 1, 1	I_4, I_1, I_1	3 : 2
B2	1	0	1	-2801	49924	1	3	+	12, 3, 3	12, 3, 3	2, 3, 3	I_{12}, I_2, I_2	3 : 1, 3

TABLE 1: ELLIPTIC CURVES 854C–858I

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
854	$N = 854 = 2 \cdot 7 \cdot 61$ (continued)												854
C1	1	1	1	-13	3	1	1	+	8, 1, 1	8, 1, 1	8, 1, 1	I_8, I_1, I_1	
D1	1	1	1	-399	1237	1	1	+	6, 7, 1	6, 7, 1	6, 7, 1	I_6, I_7, I_1	
855	$N = 855 = 3^2 \cdot 5 \cdot 19$ (3 isogeny classes)												855
A1	1	-1	1	202	4956	0	2	-	14, 3, 1	8, 3, 1	4, 1, 1	I_8^*, I_3, I_1	2 : 2
A2	1	-1	1	-3443	73482	0	4	+	10, 6, 2	4, 6, 2	4, 2, 2	I_4^*, I_6, I_2	2 : 1, 3, 4
A3	1	-1	1	-11138	-363594	0	2	+	8, 12, 1	2, 12, 1	4, 2, 1	I_2^*, I_{12}, I_1	2 : 2
A4	1	-1	1	-54068	4852482	0	2	+	8, 3, 4	2, 3, 4	2, 1, 2	I_2^*, I_3, I_4	2 : 2
B1	1	-1	1	13	474	1	2	-	7, 3, 2	1, 3, 2	2, 3, 2	I_1^*, I_3, I_2	2 : 2
B2	1	-1	1	-842	9366	1	2	+	8, 6, 1	2, 6, 1	4, 6, 1	I_2^*, I_6, I_1	2 : 1
C1	1	-1	0	171	0	0	2	-	11, 1, 2	5, 1, 2	4, 1, 2	I_5^*, I_1, I_2	2 : 2
C2	1	-1	0	-684	513	0	2	+	16, 2, 1	10, 2, 1	4, 2, 1	I_{10}^*, I_2, I_1	2 : 1
856	$N = 856 = 2^3 \cdot 107$ (4 isogeny classes)												856
A1	0	1	0	-3	2	1	1	-	4, 1	0, 1	2, 1	III, I_1	
B1	0	1	0	0	-16	1	1	-	10, 1	0, 1	2, 1	III^*, I_1	
C1	0	-1	0	-28	68	1	1	-	8, 1	0, 1	4, 1	I_1^*, I_1	
D1	0	-1	0	-432	-3316	1	1	-	11, 1	0, 1	1, 1	II^*, I_1	
858	$N = 858 = 2 \cdot 3 \cdot 11 \cdot 13$ (13 isogeny classes)												858
A1	1	1	0	6	-108	0	2	-	12, 2, 1, 1	12, 2, 1, 1	2, 2, 1, 1	I_{12}, I_2, I_1, I_1	2 : 2
A2	1	1	0	-314	-2220	0	4	+	6, 4, 2, 2	6, 4, 2, 2	2, 2, 2, 2	I_6, I_4, I_2, I_2	2 : 1, 3, 4
A3	1	1	0	-4994	-137940	0	2	+	3, 2, 4, 1	3, 2, 4, 1	1, 2, 4, 1	I_3, I_2, I_4, I_1	2 : 2
A4	1	1	0	-754	4732	0	2	+	3, 8, 1, 4	3, 8, 1, 4	1, 2, 1, 2	I_3, I_8, I_1, I_4	2 : 2
B1	1	0	1	359	1916	1	6	-	8, 6, 1, 3	8, 6, 1, 3	2, 6, 1, 3	I_8, I_6, I_1, I_3	2 : 2; 3 : 3
B2	1	0	1	-1801	16604	1	6	+	4, 3, 2, 6	4, 3, 2, 6	2, 3, 2, 6	I_4, I_3, I_2, I_6	2 : 1; 3 : 4
B3	1	0	1	-3736	-117658	1	2	-	24, 2, 3, 1	24, 2, 3, 1	2, 2, 1, 1	I_{24}, I_2, I_3, I_1	2 : 4; 3 : 1
B4	1	0	1	-65176	-6409114	1	2	+	12, 1, 6, 2	12, 1, 6, 2	2, 1, 2, 2	I_{12}, I_1, I_6, I_2	2 : 3; 3 : 2
C1	1	0	1	-7	-10	0	2	-	2, 1, 2, 1	2, 1, 2, 1	2, 1, 2, 1	I_2, I_1, I_2, I_1	2 : 2
C2	1	0	1	-117	-494	0	2	+	1, 2, 1, 2	1, 2, 1, 2	1, 2, 1, 2	I_1, I_2, I_1, I_2	2 : 1
D1	1	0	1	-103987	12897998	0	3	-	13, 6, 3, 1	13, 6, 3, 1	1, 6, 3, 1	I_{13}, I_6, I_3, I_1	3 : 2
D2	1	0	1	-80722	18827108	0	1	-	39, 2, 1, 3	39, 2, 1, 3	1, 2, 1, 3	I_{39}, I_2, I_1, I_3	3 : 1
E1	1	1	1	-1067	12953	0	4	+	12, 3, 1, 2	12, 3, 1, 2	12, 1, 1, 2	I_{12}, I_3, I_1, I_2	2 : 2
E2	1	1	1	-1387	4121	0	4	+	6, 6, 2, 4	6, 6, 2, 4	6, 2, 2, 2	I_6, I_6, I_2, I_4	2 : 1, 3, 4
E3	1	1	1	-13267	-589879	0	2	+	3, 3, 1, 8	3, 3, 1, 8	3, 1, 1, 2	I_3, I_3, I_1, I_8	2 : 2
E4	1	1	1	5373	39273	0	2	-	3, 12, 4, 2	3, 12, 4, 2	3, 2, 2, 2	I_3, I_{12}, I_4, I_2	2 : 2
F1	1	1	1	-572	118685	1	1	-	11, 6, 1, 5	11, 6, 1, 5	11, 2, 1, 5	I_{11}, I_6, I_1, I_5	
G1	1	1	1	-46	107	1	1	-	9, 2, 1, 1	9, 2, 1, 1	9, 2, 1, 1	I_9, I_2, I_1, I_1	
H1	1	1	1	-154	791	0	4	-	4, 3, 4, 1	4, 3, 4, 1	4, 1, 4, 1	I_4, I_3, I_4, I_1	2 : 2
H2	1	1	1	-2574	49191	0	4	+	2, 6, 2, 2	2, 6, 2, 2	2, 2, 2, 2	I_2, I_6, I_2, I_2	2 : 1, 3, 4
H3	1	1	1	-2684	44615	0	2	+	1, 12, 1, 4	1, 12, 1, 4	1, 2, 1, 4	I_1, I_{12}, I_1, I_4	2 : 2
H4	1	1	1	-41184	3199767	0	2	+	1, 3, 1, 1	1, 3, 1, 1	1, 1, 1, 1	I_1, I_3, I_1, I_1	2 : 2
I1	1	1	1	-2301	-43629	0	2	-	16, 6, 1, 1	16, 6, 1, 1	16, 2, 1, 1	I_{16}, I_6, I_1, I_1	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
858	$N = 858 = 2 \cdot 3 \cdot 11 \cdot 13$ (continued)												858
J1	1	0	0	13	-39	0	3	-	3, 6, 1, 1	3, 6, 1, 1	3, 6, 1, 1	I_3, I_6, I_1, I_1	3 : 2
J2	1	0	0	-617	-5961	0	1	-	1, 2, 3, 3	1, 2, 3, 3	1, 2, 1, 3	I_1, I_2, I_3, I_3	3 : 1
K1	1	0	0	-5774401	5346023177	0	7	-	7, 14, 7, 3	7, 14, 7, 3	7, 14, 7, 1	I_7, I_{14}, I_7, I_3	7 : 2
K2	1	0	0	16353089	-335543012233	0	1	-	1, 2, 1, 21	1, 2, 1, 21	1, 2, 1, 1	I_1, I_2, I_1, I_{21}	7 : 1
L1	1	0	0	-332	-6000	0	2	-	14, 1, 2, 3	14, 1, 2, 3	14, 1, 2, 1	I_{14}, I_1, I_2, I_3	2 : 2
L2	1	0	0	-7372	-243952	0	2	+	7, 2, 1, 6	7, 2, 1, 6	7, 2, 1, 2	I_7, I_2, I_1, I_6	2 : 1
M1	1	0	0	-1	-7	0	2	-	4, 2, 1, 1	4, 2, 1, 1	4, 2, 1, 1	I_4, I_2, I_1, I_1	2 : 2
M2	1	0	0	-61	-187	0	2	+	2, 1, 2, 2	2, 1, 2, 2	2, 1, 2, 2	I_2, I_1, I_2, I_2	2 : 1
861	$N = 861 = 3 \cdot 7 \cdot 41$ (4 isogeny classes)												861
A1	1	1	1	3	-6	0	2	-	4, 1, 1	4, 1, 1	2, 1, 1	I_4, I_1, I_1	2 : 2
A2	1	1	1	-42	-114	0	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1, 3, 4
A3	1	1	1	-657	-6756	0	2	+	1, 4, 1	1, 4, 1	1, 4, 1	I_1, I_4, I_1	2 : 2
A4	1	1	1	-147	516	0	2	+	1, 1, 4	1, 1, 4	1, 1, 2	I_1, I_1, I_4	2 : 2
B1	1	0	1	706	-64375	1	1	-	17, 3, 1	17, 3, 1	17, 1, 1	I_{17}, I_3, I_1	
C1	1	0	0	2941	18606	1	1	-	7, 1, 5	7, 1, 5	7, 1, 5	I_7, I_1, I_5	
D1	1	0	0	-7	14	1	1	-	5, 1, 1	5, 1, 1	5, 1, 1	I_5, I_1, I_1	
862	$N = 862 = 2 \cdot 431$ (6 isogeny classes)												862
A1	1	0	1	1	-2	1	1	-	2, 1	2, 1	2, 1	I_2, I_1	
B1	1	-1	0	-70	244	1	1	-	6, 1	6, 1	2, 1	I_6, I_1	
C1	1	-1	1	6	-7	0	2	-	6, 1	6, 1	6, 1	I_6, I_1	2 : 2
C2	1	-1	1	-34	-39	0	2	+	3, 2	3, 2	3, 2	I_3, I_2	2 : 1
D1	1	0	0	8	64	0	3	-	12, 1	12, 1	12, 1	I_{12}, I_1	3 : 2
D2	1	0	0	-72	-1744	0	1	-	4, 3	4, 3	4, 1	I_4, I_3	3 : 1
E1	1	1	1	-2460	45949	1	5	-	20, 1	20, 1	20, 1	I_{20}, I_1	5 : 2
E2	1	1	1	15380	-102531	1	1	-	4, 5	4, 5	4, 5	I_4, I_5	5 : 1
F1	1	1	1	-2	15	1	1	-	8, 1	8, 1	8, 1	I_8, I_1	
864	$N = 864 = 2^5 \cdot 3^3$ (12 isogeny classes)												864
A1	0	0	0	-3	6	1	1	-	9, 3	0, 0	2, 1	I_0^*, II	
B1	0	0	0	-24	48	1	1	-	12, 3	0, 0	2, 1	III^*, II	
C1	0	0	0	24	-16	1	1	-	12, 5	0, 0	2, 3	III^*, IV	
D1	0	0	0	-3	-6	0	1	-	9, 3	0, 0	1, 1	I_0^*, II	
E1	0	0	0	216	-432	0	1	-	12, 11	0, 0	2, 1	III^*, II^*	
F1	0	0	0	-24	-48	0	1	-	12, 3	0, 0	2, 1	III^*, II	
G1	0	0	0	-27	162	0	1	-	9, 9	0, 0	1, 1	I_0^*, IV^*	
H1	0	0	0	216	432	0	1	-	12, 11	0, 0	2, 1	III^*, II^*	
I1	0	0	0	-216	-1296	0	1	-	12, 9	0, 0	2, 1	III^*, IV^*	
J1	0	0	0	-27	-162	1	1	-	9, 9	0, 0	2, 3	I_0^*, IV^*	
K1	0	0	0	24	16	1	1	-	12, 5	0, 0	2, 1	III^*, IV	

TABLE 1: ELLIPTIC CURVES 866A–870F

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
866 $N = 866 = 2 \cdot 433$ (1 isogeny class) 866													
A1	1	0	0	−8	64	1	3	−	12, 1	12, 1	12, 1	I_{12}, I_1	3 : 2
A2	1	0	0	72	−1712	1	1	−	4, 3	4, 3	4, 3	I_4, I_3	3 : 1
867 $N = 867 = 3 \cdot 17^2$ (5 isogeny classes) 867													
A1	0	−1	1	193	−5023	1	1	−	3, 7	3, 1	1, 4	I_3, I_1^*	3 : 2
A2	0	−1	1	−17147	−859018	1	1	−	1, 9	1, 3	1, 4	I_1, I_3^*	3 : 1
B1	1	1	1	−23	20	1	2	+	4, 3	4, 0	2, 2	I_4, III	2 : 2
B2	1	1	1	62	224	1	2	−	8, 3	8, 0	2, 2	I_8, III	2 : 1
C1	0	−1	1	1638	−13693	1	1	−	1, 9	1, 0	1, 2	I_1, III^*	5 : 2
C2	0	−1	1	−244012	−46313805	1	1	−	5, 9	5, 0	1, 2	I_5, III^*	5 : 1
D1	1	0	0	−6653	145704	0	2	+	4, 9	4, 0	4, 2	I_4, III^*	2 : 2
D2	1	0	0	17912	976001	0	2	−	8, 9	8, 0	8, 2	I_8, III^*	2 : 1
E1	0	1	1	6	−1	0	1	−	1, 3	1, 0	1, 2	I_1, III	5 : 2
E2	0	1	1	−844	−9725	0	1	−	5, 3	5, 0	5, 2	I_5, III	5 : 1
869 $N = 869 = 11 \cdot 79$ (4 isogeny classes) 869													
A1	1	0	1	−138	609	1	1	+	2, 1	2, 1	2, 1	I_2, I_1	
B1	0	1	1	10	−2	1	1	−	1, 2	1, 2	1, 2	I_1, I_2	
C1	1	0	0	−2	−5	0	2	−	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
C2	1	0	0	−57	−170	0	2	+	1, 2	1, 2	1, 2	I_1, I_2	2 : 1
D1	1	1	0	−512	4237	1	1	+	2, 3	2, 3	2, 3	I_2, I_3	
870 $N = 870 = 2 \cdot 3 \cdot 5 \cdot 29$ (9 isogeny classes) 870													
A1	1	1	0	−87	261	1	2	+	4, 4, 3, 1	4, 4, 3, 1	2, 2, 3, 1	I_4, I_4, I_3, I_1	2 : 2
A2	1	1	0	−267	−1431	1	4	+	2, 2, 6, 2	2, 2, 6, 2	2, 2, 6, 2	I_2, I_2, I_6, I_2	2 : 1, 3, 4
A3	1	1	0	−4017	−99681	1	2	+	1, 1, 3, 4	1, 1, 3, 4	1, 1, 3, 4	I_1, I_1, I_3, I_4	2 : 2
A4	1	1	0	603	−7869	1	2	−	1, 1, 12, 1	1, 1, 12, 1	1, 1, 12, 1	I_1, I_1, I_{12}, I_1	2 : 2
B1	1	0	1	−2829	55816	1	6	+	10, 6, 1, 3	10, 6, 1, 3	2, 6, 1, 3	I_{10}, I_6, I_1, I_3	2 : 2; 3 : 3
B2	1	0	1	−7149	−156728	1	6	+	5, 3, 2, 6	5, 3, 2, 6	1, 3, 2, 6	I_5, I_3, I_2, I_6	2 : 1; 3 : 4
B3	1	0	1	−32844	−2275958	1	2	+	30, 2, 3, 1	30, 2, 3, 1	2, 2, 1, 1	I_{30}, I_2, I_3, I_1	2 : 4; 3 : 1
B4	1	0	1	−524364	−146193014	1	2	+	15, 1, 6, 2	15, 1, 6, 2	1, 1, 2, 2	I_{15}, I_1, I_6, I_2	2 : 3; 3 : 2
C1	1	0	1	−58	56	1	6	+	2, 6, 3, 1	2, 6, 3, 1	2, 6, 3, 1	I_2, I_6, I_3, I_1	2 : 2; 3 : 3
C2	1	0	1	212	488	1	6	−	1, 3, 6, 2	1, 3, 6, 2	1, 3, 6, 2	I_1, I_3, I_6, I_2	2 : 1; 3 : 4
C3	1	0	1	−2533	−49264	1	2	+	6, 2, 1, 3	6, 2, 1, 3	2, 2, 1, 1	I_6, I_2, I_1, I_3	2 : 4; 3 : 1
C4	1	0	1	−2413	−54112	1	2	−	3, 1, 2, 6	3, 1, 2, 6	1, 1, 2, 2	I_3, I_1, I_2, I_6	2 : 3; 3 : 2
D1	1	0	1	−113	−124	0	2	+	16, 2, 1, 1	16, 2, 1, 1	2, 2, 1, 1	I_{16}, I_2, I_1, I_1	2 : 2
D2	1	0	1	−1393	−20092	0	4	+	8, 4, 2, 2	8, 4, 2, 2	2, 4, 2, 2	I_8, I_4, I_2, I_2	2 : 1, 3, 4
D3	1	0	1	−22273	−1281244	0	2	+	4, 2, 4, 1	4, 2, 4, 1	2, 2, 4, 1	I_4, I_2, I_4, I_1	2 : 2
D4	1	0	1	−993	−31772	0	4	−	4, 8, 1, 4	4, 8, 1, 4	2, 8, 1, 4	I_4, I_8, I_1, I_4	2 : 2
E1	1	1	1	−11	−7	1	2	+	6, 2, 1, 1	6, 2, 1, 1	6, 2, 1, 1	I_6, I_2, I_1, I_1	2 : 2
E2	1	1	1	−131	−631	1	2	+	3, 1, 2, 2	3, 1, 2, 2	3, 1, 2, 2	I_3, I_1, I_2, I_2	2 : 1
F1	1	1	1	−1760	27137	1	2	+	14, 2, 5, 1	14, 2, 5, 1	14, 2, 5, 1	I_{14}, I_2, I_5, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 870G–880B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
870	$N = 870 = 2 \cdot 3 \cdot 5 \cdot 29$ (continued)												870
G1	1	1	1	-250	1415	0	4	+	8, 4, 1, 1	8, 4, 1, 1	8, 2, 1, 1	I_8, I_4, I_1, I_1	2 : 2
G2	1	1	1	-330	327	0	4	+	4, 8, 2, 2	4, 8, 2, 2	4, 2, 2, 2	I_4, I_8, I_2, I_2	2 : 1, 3, 4
G3	1	1	1	-3230	-71593	0	2	+	2, 16, 1, 1	2, 16, 1, 1	2, 2, 1, 1	I_2, I_{16}, I_1, I_1	2 : 2
G4	1	1	1	1290	4215	0	4	-	2, 4, 4, 4	2, 4, 4, 4	2, 2, 4, 4	I_2, I_4, I_4, I_4	2 : 2
H1	1	0	0	-5	-3	0	2	+	2, 2, 1, 1	2, 2, 1, 1	2, 2, 1, 1	I_2, I_2, I_1, I_1	2 : 2
H2	1	0	0	-35	75	0	2	+	1, 1, 2, 2	1, 1, 2, 2	1, 1, 2, 2	I_1, I_1, I_2, I_2	2 : 1
I1	1	0	0	-4480	-25600	0	10	+	10, 10, 5, 1	10, 10, 5, 1	10, 10, 5, 1	I_{10}, I_{10}, I_5, I_1	2 : 2; 5 : 3
I2	1	0	0	-43360	3450272	0	10	+	5, 5, 10, 2	5, 5, 10, 2	5, 5, 10, 2	I_5, I_5, I_{10}, I_2	2 : 1; 5 : 4
I3	1	0	0	-2136580	-1202240020	0	2	+	2, 2, 1, 5	2, 2, 1, 5	2, 2, 1, 1	I_2, I_2, I_1, I_5	2 : 4; 5 : 1
I4	1	0	0	-2136610	-1202204578	0	2	+	1, 1, 2, 10	1, 1, 2, 10	1, 1, 2, 2	I_1, I_1, I_2, I_{10}	2 : 3; 5 : 2
871	$N = 871 = 13 \cdot 67$ (1 isogeny class)												871
A1	0	-1	1	-42	139	0	1	-	4, 1	4, 1	2, 1	I_4, I_1	
872	$N = 872 = 2^3 \cdot 109$ (1 isogeny class)												872
A1	0	1	0	0	16	1	1	-	10, 1	0, 1	2, 1	III^*, I_1	
873	$N = 873 = 3^2 \cdot 97$ (4 isogeny classes)												873
A1	1	-1	0	-27	-32	0	2	+	8, 1	2, 1	4, 1	I_2^*, I_1	2 : 2
A2	1	-1	0	-162	805	0	2	+	7, 2	1, 2	2, 2	I_1^*, I_2	2 : 1
B1	1	-1	0	-1476	-21461	1	2	+	10, 1	4, 1	4, 1	I_4^*, I_1	2 : 2
B2	1	-1	0	-1521	-20048	1	4	+	14, 2	8, 2	4, 2	I_8^*, I_2	2 : 1, 3, 4
B3	1	-1	0	-5886	153679	1	2	+	22, 1	16, 1	4, 1	I_{16}^*, I_1	2 : 2
B4	1	-1	0	2124	-103883	1	2	-	10, 4	4, 4	2, 4	I_4^*, I_4	2 : 2
C1	0	0	1	-19569	-4064513	1	1	-	29, 1	23, 1	4, 1	I_{23}^*, I_1	
D1	0	0	1	-3	22	1	1	-	7, 1	1, 1	4, 1	I_1^*, I_1	
874	$N = 874 = 2 \cdot 19 \cdot 23$ (6 isogeny classes)												874
A1	1	-1	0	-19	-13	0	1	+	1, 3, 1	1, 3, 1	1, 1, 1	I_1, I_3, I_1	
B1	1	-1	0	-13189	575701	0	1	+	25, 3, 1	25, 3, 1	1, 1, 1	I_{25}, I_3, I_1	
C1	1	1	0	-38	76	1	1	+	3, 1, 1	3, 1, 1	1, 1, 1	I_3, I_1, I_1	
D1	1	0	0	-12	-16	1	1	+	5, 1, 1	5, 1, 1	5, 1, 1	I_5, I_1, I_1	
E1	1	1	1	-410	903	1	5	+	5, 1, 5	5, 1, 5	5, 1, 5	I_5, I_1, I_5	5 : 2
E2	1	1	1	-142320	-20724857	1	1	+	1, 5, 1	1, 5, 1	1, 1, 1	I_1, I_5, I_1	5 : 1
F1	1	0	0	-7929	-270343	0	3	+	21, 1, 3	21, 1, 3	21, 1, 3	I_{21}, I_1, I_3	3 : 2
F2	1	0	0	-640889	-197533063	0	1	+	7, 3, 1	7, 3, 1	7, 3, 1	I_7, I_3, I_1	3 : 1
876	$N = 876 = 2^2 \cdot 3 \cdot 73$ (2 isogeny classes)												876
A1	0	-1	0	-48885	4176513	1	1	-	8, 11, 1	0, 11, 1	1, 1, 1	IV^*, I_{11}, I_1	
B1	0	1	0	-61	191	1	1	-	8, 5, 1	0, 5, 1	3, 5, 1	IV^*, I_5, I_1	
880	$N = 880 = 2^4 \cdot 5 \cdot 11$ (10 isogeny classes)												880
A1	0	0	0	2	3	1	2	-	4, 2, 1	0, 2, 1	1, 2, 1	II, I_2, I_1	2 : 2
A2	0	0	0	-23	38	1	2	+	8, 1, 2	0, 1, 2	2, 1, 2	I_0^*, I_1, I_2	2 : 1
B1	0	0	0	-38	87	0	2	+	4, 3, 2	0, 3, 2	1, 1, 2	II, I_2, I_2	2 : 2

TABLE 1: ELLIPTIC CURVES 880C–882H

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
880	$N = 880 = 2^4 \cdot 5 \cdot 11$ (continued)												880
C1	0	0	0	-5042	-137801	1	2	+	4, 3, 2	0, 3, 2	1, 3, 2	II, I ₃ , I ₂	2 : 2
C2	0	0	0	-5047	-137514	1	4	+	8, 6, 4	0, 6, 4	2, 6, 4	I ₀ [*] , I ₆ , I ₄	2 : 1, 3, 4
C3	0	0	0	-7547	12986	1	4	+	10, 3, 8	0, 3, 8	4, 3, 8	I ₂ [*] , I ₃ , I ₈	2 : 2
C4	0	0	0	-2627	-269646	1	4	-	10, 12, 2	0, 12, 2	2, 12, 2	I ₂ [*] , I ₁₂ , I ₂	2 : 2
D1	0	0	0	-67	226	1	1	-	11, 3, 1	0, 3, 1	4, 3, 1	I ₃ [*] , I ₃ , I ₁	
E1	0	-1	0	-1416	-20240	0	1	-	19, 1, 3	7, 1, 3	2, 1, 1	I ₁₁ [*] , I ₁ , I ₃	3 : 2
E2	0	-1	0	4744	-108944	0	1	-	33, 3, 1	21, 3, 1	2, 1, 1	I ₂₅ [*] , I ₃ , I ₁	3 : 1
F1	0	-1	0	-16	-64	1	1	-	15, 1, 1	3, 1, 1	4, 1, 1	I ₇ [*] , I ₁ , I ₁	3 : 2
F2	0	-1	0	144	1600	1	1	-	13, 3, 3	1, 3, 3	4, 1, 3	I ₅ [*] , I ₃ , I ₃	3 : 1
G1	0	1	0	160	3188	1	1	-	17, 5, 1	5, 5, 1	4, 5, 1	I ₉ [*] , I ₅ , I ₁	5 : 2
G2	0	1	0	-95040	11245748	1	1	-	13, 1, 5	1, 1, 5	4, 1, 1	I ₅ [*] , I ₁ , I ₅	5 : 1
H1	0	1	0	-5	-2	1	2	+	4, 1, 2	0, 1, 2	1, 1, 2	II, I ₁ , I ₂	2 : 2
H2	0	1	0	-60	-200	1	2	+	8, 2, 1	0, 2, 1	1, 2, 1	I ₀ [*] , I ₂ , I ₁	2 : 1
I1	0	0	0	13	-14	0	2	-	12, 1, 1	0, 1, 1	4, 1, 1	I ₄ [*] , I ₁ , I ₁	2 : 2
I2	0	0	0	-67	-126	0	4	+	12, 2, 2	0, 2, 2	4, 2, 2	I ₄ [*] , I ₂ , I ₂	2 : 1, 3, 4
I3	0	0	0	-947	-11214	0	2	+	12, 4, 1	0, 4, 1	2, 4, 1	I ₄ [*] , I ₄ , I ₁	2 : 2
I4	0	0	0	-467	3794	0	4	+	12, 1, 4	0, 1, 4	4, 1, 4	I ₄ [*] , I ₁ , I ₄	2 : 2
J1	0	-1	0	-45	-100	0	2	+	4, 3, 2	0, 3, 2	1, 3, 2	II, I ₃ , I ₂	2 : 2; 3 : 3
J2	0	-1	0	-100	252	0	2	+	8, 6, 1	0, 6, 1	1, 6, 1	I ₀ [*] , I ₆ , I ₁	2 : 1; 3 : 4
J3	0	-1	0	-445	3720	0	2	+	4, 1, 6	0, 1, 6	1, 1, 6	II, I ₁ , I ₆	2 : 4; 3 : 1
J4	0	-1	0	-7100	232652	0	2	+	8, 2, 3	0, 2, 3	1, 2, 3	I ₀ [*] , I ₂ , I ₃	2 : 3; 3 : 2
882	$N = 882 = 2 \cdot 3^2 \cdot 7^2$ (12 isogeny classes)												882
A1	1	-1	0	-4566	119916	1	3	-	3, 3, 8	3, 0, 0	1, 2, 3	I ₃ , III, IV [*]	3 : 2
A2	1	-1	0	579	366533	1	1	-	9, 9, 8	9, 0, 0	1, 2, 3	I ₉ , III [*] , IV [*]	3 : 1
B1	1	-1	0	-93	-323	0	1	-	3, 3, 2	3, 0, 0	1, 2, 1	I ₃ , III, II	3 : 2
B2	1	-1	0	12	-1072	0	1	-	9, 9, 2	9, 0, 0	1, 2, 1	I ₉ , III [*] , II	3 : 1
C1	1	-1	0	-450	-8366	0	1	-	1, 7, 8	1, 1, 0	1, 2, 1	I ₁ , I ₁ [*] , IV [*]	7 : 2
C2	1	-1	0	-62190	6208852	0	1	-	7, 13, 8	7, 7, 0	1, 2, 1	I ₇ , I ₇ [*] , IV [*]	7 : 1
D1	1	-1	0	-9	27	1	1	-	1, 7, 2	1, 1, 0	1, 4, 1	I ₁ , I ₁ [*] , II	7 : 2
D2	1	-1	0	-1269	-17739	1	1	-	7, 13, 2	7, 7, 0	1, 4, 1	I ₇ , I ₇ [*] , II	7 : 1
E1	1	-1	0	-1773	63909	1	2	-	8, 8, 7	8, 2, 1	2, 2, 4	I ₈ , I ₂ [*] , I ₁ [*]	2 : 2
E2	1	-1	0	-37053	2752245	1	4	+	4, 10, 8	4, 4, 2	2, 4, 4	I ₄ , I ₄ [*] , I ₂ [*]	2 : 1, 3, 4
E3	1	-1	0	-45873	1349865	1	4	+	2, 14, 10	2, 8, 4	2, 4, 4	I ₂ , I ₈ [*] , I ₄ [*]	2 : 2, 5, 6
E4	1	-1	0	-592713	175784769	1	2	+	2, 8, 7	2, 2, 1	2, 4, 2	I ₂ , I ₂ [*] , I ₁ [*]	2 : 2
E5	1	-1	0	-403083	-97454421	1	2	+	1, 10, 14	1, 4, 8	1, 2, 4	I ₁ , I ₄ [*] , I ₈ [*]	2 : 3
E6	1	-1	0	170217	10295991	1	2	-	1, 22, 8	1, 16, 2	1, 4, 2	I ₁ , I ₁₆ [*] , I ₂ [*]	2 : 3
F1	1	-1	1	64	-13597	0	3	-	9, 3, 8	9, 0, 0	9, 2, 3	I ₉ , III, IV [*]	3 : 2
F2	1	-1	1	-41096	-3196637	0	1	-	3, 9, 8	3, 0, 0	3, 2, 3	I ₃ , III [*] , IV [*]	3 : 1
G1	1	-1	1	1	39	1	1	-	9, 3, 2	9, 0, 0	9, 2, 1	I ₉ , III, II	3 : 2
G2	1	-1	1	-839	9559	1	1	-	3, 9, 2	3, 0, 0	3, 2, 1	I ₃ , III [*] , II	3 : 1
H1	1	-1	1	211	1397	1	1	-	5, 9, 4	5, 3, 0	5, 4, 3	I ₅ , I ₁ [*] , IV [*]	3 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
882	$N = 882 = 2 \cdot 3^2 \cdot 7^2$ (continued)												882
I1	1	-1	1	-230	2769	0	2	-	2, 6, 7	2, 0, 1	2, 2, 2	I_2, I_0^*, I_1^*	2 : 2; 3 : 3
I2	1	-1	1	-4640	122721	0	2	+	1, 6, 8	1, 0, 2	1, 2, 4	I_1, I_0^*, I_2^*	2 : 1; 3 : 4
I3	1	-1	1	1975	-57207	0	2	-	6, 6, 9	6, 0, 3	6, 2, 2	I_6, I_0^*, I_3^*	2 : 4; 3 : 1, 5
I4	1	-1	1	-15665	-614631	0	2	+	3, 6, 12	3, 0, 6	3, 2, 4	I_3, I_0^*, I_6^*	2 : 3; 3 : 2, 6
I5	1	-1	1	-75200	-7941405	0	2	-	18, 6, 7	18, 0, 1	18, 2, 2	I_{18}, I_0^*, I_1^*	2 : 6; 3 : 3
I6	1	-1	1	-1204160	-508296477	0	2	+	9, 6, 8	9, 0, 2	9, 2, 4	I_9, I_0^*, I_2^*	2 : 5; 3 : 4
J1	1	-1	1	10354	-499971	0	1	-	5, 9, 10	5, 3, 0	5, 2, 1	I_5, I_3^*, II^*	3 : 2
J2	1	-1	1	-313781	-67920051	0	1	-	15, 7, 10	15, 1, 0	15, 2, 1	I_{15}, I_1^*, II^*	3 : 1
K1	1	-1	1	22	-871	0	2	-	4, 10, 3	4, 4, 0	4, 2, 2	I_4, I_4^*, III	2 : 2
K2	1	-1	1	-1238	-15991	0	2	+	2, 14, 3	2, 8, 0	2, 4, 2	I_2, I_8^*, III	2 : 1
L1	1	-1	1	1093	296475	0	2	-	4, 10, 9	4, 4, 0	4, 2, 2	I_4, I_4^*, III^*	2 : 2
L2	1	-1	1	-60647	5606115	0	2	+	2, 14, 9	2, 8, 0	2, 4, 2	I_2, I_8^*, III^*	2 : 1
885	$N = 885 = 3 \cdot 5 \cdot 59$ (4 isogeny classes)												885
A1	0	-1	1	-126	587	0	1	+	7, 1, 1	7, 1, 1	1, 1, 1	I_7, I_1, I_1	
B1	1	1	0	-92	-381	1	2	+	1, 2, 1	1, 2, 1	1, 2, 1	I_1, I_2, I_1	2 : 2
B2	1	1	0	-97	-344	1	4	+	2, 4, 2	2, 4, 2	2, 4, 2	I_2, I_4, I_2	2 : 1, 3, 4
B3	1	1	0	-472	3481	1	4	+	1, 2, 4	1, 2, 4	1, 2, 4	I_1, I_2, I_4	2 : 2
B4	1	1	0	198	-1701	1	2	-	4, 8, 1	4, 8, 1	2, 8, 1	I_4, I_8, I_1	2 : 2
C1	0	1	1	-5	-4	1	1	+	3, 1, 1	3, 1, 1	3, 1, 1	I_3, I_1, I_1	
D1	0	1	1	-280	1684	1	5	+	5, 5, 1	5, 5, 1	5, 5, 1	I_5, I_5, I_1	5 : 2
D2	0	1	1	-19330	-1040876	1	1	+	1, 1, 5	1, 1, 5	1, 1, 1	I_1, I_1, I_5	5 : 1
886	$N = 886 = 2 \cdot 443$ (5 isogeny classes)												886
A1	1	-1	0	-14	24	1	1	+	2, 1	2, 1	2, 1	I_2, I_1	
B1	1	0	1	-1203	15950	1	1	-	9, 1	9, 1	1, 1	I_9, I_1	
C1	1	1	0	-283	-1635	0	1	+	20, 1	20, 1	2, 1	I_{20}, I_1	
D1	1	-1	1	-241390	45705725	1	1	+	38, 1	38, 1	38, 1	I_{38}, I_1	
E1	1	-1	1	-4	7	1	1	-	5, 1	5, 1	5, 1	I_5, I_1	
888	$N = 888 = 2^3 \cdot 3 \cdot 37$ (4 isogeny classes)												888
A1	0	-1	0	-200	-1044	0	1	-	11, 5, 1	0, 5, 1	1, 1, 1	II^*, I_5, I_1	
B1	0	1	0	-39	-18	1	4	+	4, 8, 1	0, 8, 1	2, 8, 1	III, I_8, I_1	2 : 2
B2	0	1	0	-444	-3744	1	4	+	8, 4, 2	0, 4, 2	2, 4, 2	I_1^*, I_4, I_2	2 : 1, 3, 4
B3	0	1	0	-7104	-232848	1	2	+	10, 2, 1	0, 2, 1	2, 2, 1	III^*, I_2, I_1	2 : 2
B4	0	1	0	-264	-6624	1	4	-	10, 2, 4	0, 2, 4	2, 2, 4	III^*, I_2, I_4	2 : 2
C1	0	-1	0	-3	-36	1	2	-	4, 3, 2	0, 3, 2	2, 1, 2	III, I_3, I_2	2 : 2
C2	0	-1	0	-188	-924	1	2	+	8, 6, 1	0, 6, 1	4, 2, 1	I_1^*, I_6, I_1	2 : 1
D1	0	1	0	-11	-18	0	2	+	4, 2, 1	0, 2, 1	2, 2, 1	III, I_2, I_1	2 : 2
D2	0	1	0	4	-48	0	2	-	8, 1, 2	0, 1, 2	4, 1, 2	I_1^*, I_1, I_2	2 : 1
890	$N = 890 = 2 \cdot 5 \cdot 89$ (8 isogeny classes)												890
A1	1	-1	0	-5	1	1	2	+	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 890B–894G

890	a_1	a_2	a_3	a_4	$N = a_6$	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies	890
								5	(continued)					
B1	1	0	1	−9	−4	1	2	+	4, 2, 1	4, 2, 1	2, 2, 1	I_4, I_2, I_1	2 : 2	
B2	1	0	1	−109	−444	1	2	+	2, 1, 2	2, 1, 2	2, 1, 2	I_2, I_1, I_2	2 : 1	
C1	1	1	0	−418	3072	0	2	+	2, 8, 1	2, 8, 1	2, 2, 1	I_2, I_8, I_1	2 : 2	
C2	1	1	0	−6668	206822	0	2	+	1, 4, 2	1, 4, 2	1, 2, 2	I_1, I_4, I_2	2 : 1	
D1	1	0	1	−13	16	1	1	−	3, 1, 1	3, 1, 1	1, 1, 1	I_3, I_1, I_1		
E1	1	0	1	−1138	−14844	1	2	+	12, 4, 1	12, 4, 1	2, 4, 1	I_{12}, I_4, I_1	2 : 2	
E2	1	0	1	−818	−23292	1	2	−	6, 8, 2	6, 8, 2	2, 8, 2	I_6, I_8, I_2	2 : 1	
F1	1	−1	1	12	87	1	1	−	13, 1, 1	13, 1, 1	13, 1, 1	I_{13}, I_1, I_1		
G1	1	1	1	10	147	1	5	−	5, 5, 1	5, 5, 1	5, 5, 1	I_5, I_5, I_1	5 : 2	
G2	1	1	1	−2040	−38093	1	1	−	1, 1, 5	1, 1, 5	1, 1, 1	I_1, I_1, I_5	5 : 1	
H1	1	−1	1	−52	151	0	4	+	8, 2, 1	8, 2, 1	8, 2, 1	I_8, I_2, I_1	2 : 2	
H2	1	−1	1	−132	−361	0	4	+	4, 4, 2	4, 4, 2	4, 4, 2	I_4, I_4, I_2	2 : 1, 3, 4	
H3	1	−1	1	−1912	−31689	0	2	+	2, 8, 1	2, 8, 1	2, 8, 1	I_2, I_8, I_1	2 : 2	
H4	1	−1	1	368	−2761	0	4	−	2, 2, 4	2, 2, 4	2, 2, 4	I_2, I_2, I_4	2 : 2	
891					$N = 891 = 3^4 \cdot 11$				(8 isogeny classes)					891
A1	1	−1	1	7	10	1	1	−	6, 2	0, 2	1, 2	IV, I_2		
B1	0	0	1	6	−15	0	3	−	4, 3	0, 3	1, 3	II, I_3	3 : 2	
B2	0	0	1	−324	−2248	0	1	−	12, 1	0, 1	1, 1	II^*, I_1	3 : 1	
C1	1	−1	0	66	−343	0	1	−	12, 2	0, 2	1, 2	II^*, I_2		
D1	1	−1	0	−339	2492	0	1	−	12, 1	0, 1	1, 1	II^*, I_1	7 : 2	
D2	1	−1	0	876	−154729	0	1	−	12, 7	0, 7	1, 7	II^*, I_7	7 : 1	
E1	0	0	1	−81	−304	0	1	−	12, 1	0, 1	1, 1	II^*, I_1		
F1	0	0	1	−36	83	0	3	−	6, 1	0, 1	3, 1	IV, I_1	3 : 2	
F2	0	0	1	54	398	0	1	−	10, 3	0, 3	1, 1	IV^*, I_3	3 : 1	
G1	1	−1	1	−38	−80	0	1	−	6, 1	0, 1	1, 1	IV, I_1	7 : 2	
G2	1	−1	1	97	5698	0	1	−	6, 7	0, 7	1, 1	IV, I_7	7 : 1	
H1	0	0	1	−9	11	0	1	−	6, 1	0, 1	1, 1	IV, I_1		
892					$N = 892 = 2^2 \cdot 223$				(3 isogeny classes)					892
A1	0	0	0	−415	3254	0	1	+	8, 1	0, 1	1, 1	IV^*, I_1		
B1	0	1	0	−188	932	1	3	+	8, 1	0, 1	3, 1	IV^*, I_1	3 : 2	
B2	0	1	0	−388	−1580	1	1	+	8, 3	0, 3	1, 3	IV^*, I_3	3 : 1	
C1	0	−1	0	−12	−8	1	1	+	8, 1	0, 1	3, 1	IV^*, I_1		
894					$N = 894 = 2 \cdot 3 \cdot 149$				(7 isogeny classes)					894
A1	1	1	0	−18630	971028	1	1	−	13, 8, 1	13, 8, 1	1, 2, 1	I_{13}, I_8, I_1		
B1	1	1	0	−59	−201	1	1	+	1, 5, 1	1, 5, 1	1, 1, 1	I_1, I_5, I_1		
C1	1	0	1	−407	−268	0	3	+	1, 15, 1	1, 15, 1	1, 15, 1	I_1, I_{15}, I_1	3 : 2	
C2	1	0	1	−23492	−1387798	0	1	+	3, 5, 3	3, 5, 3	1, 5, 1	I_3, I_5, I_3	3 : 1	
D1	1	0	1	−13	−16	1	1	+	3, 3, 1	3, 3, 1	1, 3, 1	I_3, I_3, I_1		
E1	1	1	1	−38	−15325	1	1	−	23, 4, 1	23, 4, 1	23, 2, 1	I_{23}, I_4, I_1		
F1	1	1	1	−42	87	1	1	+	5, 1, 1	5, 1, 1	5, 1, 1	I_5, I_1, I_1		

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
895	$N = 895 = 5 \cdot 179$ (2 isogeny classes)												895
A1	1	0	0	-6	5	1	1	+	1, 1	1, 1	1, 1	I_1, I_1	
B1	1	-1	1	-183	352	0	1	+	9, 1	9, 1	1, 1	I_9, I_1	
896	$N = 896 = 2^7 \cdot 7$ (4 isogeny classes)												896
A1	0	0	0	-10	-12	1	2	+	8, 1	0, 1	2, 1	III, I_1	2 : 2
A2	0	0	0	-20	16	1	2	+	13, 2	0, 2	2, 2	I_2^*, I_2	2 : 1
B1	0	0	0	-5	2	1	2	+	7, 2	0, 2	1, 2	II, I_2	2 : 2
B2	0	0	0	-40	-96	1	2	+	14, 1	0, 1	2, 1	III^*, I_1	2 : 1
C1	0	0	0	-5	-2	0	2	+	7, 2	0, 2	1, 2	II, I_2	2 : 2
C2	0	0	0	-40	96	0	2	+	14, 1	0, 1	2, 1	III^*, I_1	2 : 1
D1	0	0	0	-10	12	1	2	+	8, 1	0, 1	2, 1	III, I_1	2 : 2
D2	0	0	0	-20	-16	1	2	+	13, 2	0, 2	4, 2	I_2^*, I_2	2 : 1
897	$N = 897 = 3 \cdot 13 \cdot 23$ (6 isogeny classes)												897
A1	1	1	0	-97	5560	0	2	-	8, 2, 3	8, 2, 3	2, 2, 1	I_8, I_2, I_3	2 : 2
A2	1	1	0	-5362	147715	0	2	+	4, 1, 6	4, 1, 6	2, 1, 2	I_4, I_1, I_6	2 : 1
B1	1	1	1	-52	164	0	4	-	2, 4, 1	2, 4, 1	2, 4, 1	I_2, I_4, I_1	2 : 2
B2	1	1	1	-897	9966	0	4	+	4, 2, 2	4, 2, 2	2, 2, 2	I_4, I_2, I_2	2 : 1, 3, 4
B3	1	1	1	-962	8354	0	2	+	8, 1, 4	8, 1, 4	2, 1, 2	I_8, I_1, I_4	2 : 2
B4	1	1	1	-14352	655806	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
C1	1	1	1	-19	-40	1	2	+	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	2 : 2
C2	1	1	1	-24	-24	1	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1, 3, 4
C3	1	1	1	-219	1146	1	4	+	1, 1, 4	1, 1, 4	1, 1, 4	I_1, I_1, I_4	2 : 2
C4	1	1	1	91	-70	1	2	-	4, 4, 1	4, 4, 1	2, 4, 1	I_4, I_4, I_1	2 : 2
D1	1	0	1	130884	-59725523	1	2	-	12, 10, 1	12, 10, 1	12, 10, 1	I_{12}, I_{10}, I_1	2 : 2
D2	1	0	1	-1725581	-795628249	1	2	+	24, 5, 2	24, 5, 2	24, 5, 2	I_{24}, I_5, I_2	2 : 1
E1	1	0	0	-19602	1069443	1	4	-	20, 2, 1	20, 2, 1	20, 2, 1	I_{20}, I_2, I_1	2 : 2
E2	1	0	0	-314847	67971960	1	4	+	10, 4, 2	10, 4, 2	10, 4, 2	I_{10}, I_4, I_2	2 : 1, 3, 4
E3	1	0	0	-316062	67420593	1	2	+	5, 8, 4	5, 8, 4	5, 8, 2	I_5, I_8, I_4	2 : 2
E4	1	0	0	-5037552	4351465395	1	2	+	5, 2, 1	5, 2, 1	5, 2, 1	I_5, I_2, I_1	2 : 2
F1	1	0	0	0	-9	1	2	-	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	2 : 2
F2	1	0	0	-65	-204	1	2	+	4, 1, 2	4, 1, 2	4, 1, 2	I_4, I_1, I_2	2 : 1
898	$N = 898 = 2 \cdot 449$ (4 isogeny classes)												898
A1	1	0	1	-202	1084	1	1	+	7, 1	7, 1	1, 1	I_7, I_1	
B1	1	1	0	-451	3789	0	1	-	21, 1	21, 1	1, 1	I_{21}, I_1	
C1	1	1	1	-12	-19	0	2	+	6, 1	6, 1	6, 1	I_6, I_1	2 : 2
C2	1	1	1	-52	109	0	2	+	3, 2	3, 2	3, 2	I_3, I_2	2 : 1
D1	1	1	1	-4	-3	1	1	+	3, 1	3, 1	3, 1	I_3, I_1	
899	$N = 899 = 29 \cdot 31$ (2 isogeny classes)												899
A1	1	0	1	-3	-1	1	1	+	1, 1	1, 1	1, 1	I_1, I_1	

TABLE 1: ELLIPTIC CURVES 900A–903B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
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900 $N = 900 = 2^2 \cdot 3^2 \cdot 5^2$ (8 isogeny classes)**900**

A1	0	0	0	0	12500	0	1	− 8, 3, 10	0, 0, 0	1, 2, 1	IV*, III, II*	3 : 2
A2	0	0	0	0	−337500	0	1	− 8, 9, 10	0, 0, 0	3, 2, 1	IV*, III*, II*	3 : 1
B1	0	0	0	0	125	0	2	− 4, 3, 6	0, 0, 0	1, 2, 2	IV, III, I ₀ *	2 : 2; 3 : 3
B2	0	0	0	−375	2750	0	2	+ 8, 3, 6	0, 0, 0	1, 2, 2	IV*, III, I ₀ *	2 : 1; 3 : 4
B3	0	0	0	0	−3375	0	2	− 4, 9, 6	0, 0, 0	3, 2, 2	IV, III*, I ₀ *	2 : 4; 3 : 1
B4	0	0	0	−3375	−74250	0	2	+ 8, 9, 6	0, 0, 0	3, 2, 2	IV*, III*, I ₀ *	2 : 3; 3 : 2
C1	0	0	0	0	100	1	3	− 8, 3, 4	0, 0, 0	3, 2, 3	IV*, III, IV	3 : 2
C2	0	0	0	0	−2700	1	1	− 8, 9, 4	0, 0, 0	1, 2, 1	IV*, III*, IV	3 : 1
D1	0	0	0	−120	740	1	1	− 8, 9, 2	0, 3, 0	3, 4, 1	IV*, I ₃ *, II	3 : 2
D2	0	0	0	−10920	439220	1	1	− 8, 7, 2	0, 1, 0	1, 4, 1	IV*, I ₁ *, II	3 : 1
E1	0	0	0	−300	−1375	1	2	+ 4, 6, 7	0, 0, 1	3, 2, 4	IV, I ₀ *, I ₁ *	2 : 2; 3 : 3
E2	0	0	0	825	−9250	1	2	− 8, 6, 8	0, 0, 2	3, 2, 4	IV*, I ₀ *, I ₂ *	2 : 1; 3 : 4
E3	0	0	0	−9300	345125	1	2	+ 4, 6, 9	0, 0, 3	1, 2, 4	IV, I ₀ *, I ₃ *	2 : 4; 3 : 1
E4	0	0	0	−8175	431750	1	2	− 8, 6, 12	0, 0, 6	1, 2, 4	IV*, I ₀ *, I ₆ *	2 : 3; 3 : 2
F1	0	0	0	−3000	92500	0	1	− 8, 9, 8	0, 3, 0	1, 2, 1	IV*, I ₃ *, IV*	3 : 2
F2	0	0	0	−273000	54902500	0	3	− 8, 7, 8	0, 1, 0	3, 2, 3	IV*, I ₁ *, IV*	3 : 1
G1	0	0	0	−3000	−59375	0	2	+ 4, 8, 9	0, 2, 0	3, 2, 2	IV, I ₂ *, III*	2 : 2
G2	0	0	0	2625	−256250	0	2	− 8, 10, 9	0, 4, 0	3, 4, 2	IV*, I ₄ *, III*	2 : 1
H1	0	0	0	−120	−475	0	2	+ 4, 8, 3	0, 2, 0	1, 2, 2	IV, I ₂ *, III	2 : 2
H2	0	0	0	105	−2050	0	2	− 8, 10, 3	0, 4, 0	1, 4, 2	IV*, I ₄ *, III	2 : 1

901 $N = 901 = 17 \cdot 53$ (6 isogeny classes)**901**

A1	1	−1	1	−85	−220	1	2	+ 3, 2	3, 2	1, 2	I ₃ , I ₂	2 : 2
A2	1	−1	1	180	−1492	1	2	− 6, 1	6, 1	2, 1	I ₆ , I ₁	2 : 1
B1	1	1	1	−29598	1947602	1	2	+ 5, 2	5, 2	1, 2	I ₅ , I ₂	2 : 2
B2	1	1	1	−29863	1910608	1	2	+ 10, 1	10, 1	2, 1	I ₁₀ , I ₁	2 : 1
C1	0	1	1	−17	7	0	3	+ 3, 1	3, 1	3, 1	I ₃ , I ₁	3 : 2
C2	0	1	1	−697	−7320	0	1	+ 1, 3	1, 3	1, 1	I ₁ , I ₃	3 : 1
D1	1	−1	1	−346	−68922	0	1	− 3, 5	3, 5	3, 1	I ₃ , I ₅	
E1	0	0	1	−1507	4209	1	1	+ 5, 3	5, 3	5, 3	I ₅ , I ₃	
F1	0	−1	1	−4	−2	1	1	+ 1, 1	1, 1	1, 1	I ₁ , I ₁	

902 $N = 902 = 2 \cdot 11 \cdot 41$ (2 isogeny classes)**902**

A1	1	0	1	−2382	77312	1	1	− 18, 5, 1	18, 5, 1	2, 1, 1	I ₁₈ , I ₅ , I ₁	
B1	1	0	0	−64	192	0	3	− 6, 1, 1	6, 1, 1	6, 1, 1	I ₆ , I ₁ , I ₁	3 : 2
B2	1	0	0	76	892	0	1	− 2, 3, 3	2, 3, 3	2, 1, 1	I ₂ , I ₃ , I ₃	3 : 1

903 $N = 903 = 3 \cdot 7 \cdot 43$ (2 isogeny classes)**903**

A1	0	1	1	7	2	1	1	− 2, 2, 1	2, 2, 1	2, 2, 1	I ₂ , I ₂ , I ₁	
B1	0	1	1	−43	−43484	0	3	− 18, 2, 1	18, 2, 1	18, 2, 1	I ₁₈ , I ₂ , I ₁	3 : 2
B2	0	1	1	−94813	−11269355	0	3	− 6, 6, 3	6, 6, 3	6, 6, 3	I ₆ , I ₆ , I ₂	3 : 1, 3

TABLE 1: ELLIPTIC CURVES 904A–910F

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies	
904	$N = 904 = 2^3 \cdot 113$ (1 isogeny class)													904
A1	0	0	0	-35	78	1	2	+	10, 1	0, 1	2, 1	III*, I ₁	2 : 2	
A2	0	0	0	5	246	1	2	-	11, 2	0, 2	1, 2	II*, I ₂	2 : 1	
905	$N = 905 = 5 \cdot 181$ (2 isogeny classes)													905
A1	1	1	0	-18	23	1	2	+	1, 1	1, 1	1, 1	I ₁ , I ₁	2 : 2	
A2	1	1	0	-13	42	1	2	-	2, 2	2, 2	2, 2	I ₂ , I ₂	2 : 1	
B1	1	0	1	-388	-2969	0	1	-	5, 1	5, 1	5, 1	I ₅ , I ₁		
906	$N = 906 = 2 \cdot 3 \cdot 151$ (9 isogeny classes)													906
A1	1	1	0	3395	-211907	1	1	-	26, 7, 1	26, 7, 1	2, 1, 1	I ₂₆ , I ₇ , I ₁		
B1	1	1	0	-16	-32	1	1	+	5, 1, 1	5, 1, 1	1, 1, 1	I ₅ , I ₁ , I ₁		
C1	1	0	1	54	64	1	3	-	2, 9, 1	2, 9, 1	2, 9, 1	I ₂ , I ₉ , I ₁	3 : 2	
C2	1	0	1	-621	-7064	1	3	-	6, 3, 3	6, 3, 3	2, 3, 3	I ₆ , I ₃ , I ₃	3 : 1, 3	
C3	1	0	1	-52716	-4662998	1	1	-	18, 1, 1	18, 1, 1	2, 1, 1	I ₁₈ , I ₁ , I ₁	3 : 2	
D1	1	0	1	-1715	27182	1	3	+	5, 3, 1	5, 3, 1	1, 3, 1	I ₅ , I ₃ , I ₁	3 : 2	
D2	1	0	1	-1970	18500	1	1	+	15, 1, 3	15, 1, 3	1, 1, 3	I ₁₅ , I ₁ , I ₃	3 : 1	
E1	1	1	1	-40466325	99063769563	0	1	+	5, 7, 1	5, 7, 1	5, 1, 1	I ₅ , I ₇ , I ₁		
F1	1	1	1	-11	-19	0	1	-	2, 1, 1	2, 1, 1	2, 1, 1	I ₂ , I ₁ , I ₁		
G1	1	1	1	-21	-45	1	1	+	3, 3, 1	3, 3, 1	3, 1, 1	I ₃ , I ₃ , I ₁		
H1	1	0	0	-152	576	1	1	+	11, 5, 1	11, 5, 1	11, 5, 1	I ₁₁ , I ₅ , I ₁		
I1	1	0	0	-6	-6	0	1	+	1, 1, 1	1, 1, 1	1, 1, 1	I ₁ , I ₁ , I ₁		
909	$N = 909 = 3^2 \cdot 101$ (3 isogeny classes)													909
A1	0	0	1	-1776	3834	0	1	+	20, 1	14, 1	2, 1	I ₁₄ *, I ₁		
B1	0	0	1	-57	-117	0	1	+	10, 1	4, 1	2, 1	I ₄ *, I ₁		
C1	0	0	1	-12	9	1	1	+	6, 1	0, 1	2, 1	I ₀ *, I ₁		
910	$N = 910 = 2 \cdot 5 \cdot 7 \cdot 13$ (11 isogeny classes)													910
A1	1-1	0	-2000	32000	0	2	+	20, 3, 2, 1	20, 3, 2, 1	2, 1, 2, 1	I ₂₀ , I ₃ , I ₂ , I ₁	2 : 2		
A2	1-1	0	-7120	-194304	0	4	+	10, 6, 4, 2	10, 6, 4, 2	2, 2, 4, 2	I ₁₀ , I ₆ , I ₄ , I ₂	2 : 1, 3, 4		
A3	1-1	0	-109040	-13831200	0	2	+	5, 12, 2, 1	5, 12, 2, 1	1, 2, 2, 1	I ₅ , I ₁₂ , I ₂ , I ₁	2 : 2		
A4	1-1	0	12880	-1102304	0	2	-	5, 3, 8, 4	5, 3, 8, 4	1, 1, 8, 2	I ₅ , I ₃ , I ₈ , I ₄	2 : 2		
B1	1	0	1	6	42	1	3	-	1, 2, 1, 3	1, 2, 1, 3	1, 2, 1, 3	I ₁ , I ₂ , I ₁ , I ₃	3 : 2	
B2	1	0	1	-59	-1154	1	1	-	3, 6, 3, 1	3, 6, 3, 1	1, 2, 3, 1	I ₃ , I ₆ , I ₃ , I ₁	3 : 1	
C1	1	0	1	-234	1352	1	6	+	2, 1, 2, 3	2, 1, 2, 3	2, 1, 2, 3	I ₂ , I ₁ , I ₂ , I ₃	2 : 2; 3 : 3	
C2	1	0	1	-304	456	1	6	+	1, 2, 1, 6	1, 2, 1, 6	1, 2, 1, 6	I ₁ , I ₂ , I ₁ , I ₆	2 : 1; 3 : 4	
C3	1	0	1	-949	-9984	1	2	+	6, 3, 6, 1	6, 3, 6, 1	2, 1, 6, 1	I ₆ , I ₃ , I ₆ , I ₁	2 : 4; 3 : 1	
C4	1	0	1	-14669	-685008	1	2	+	3, 6, 3, 2	3, 6, 3, 2	1, 2, 3, 2	I ₃ , I ₆ , I ₃ , I ₂	2 : 3; 3 : 2	
D1	1-1	0	-29	-47	1	2	+	2, 3, 2, 1	2, 3, 2, 1	2, 3, 2, 1	I ₂ , I ₃ , I ₂ , I ₁	2 : 2		
D2	1-1	0	41	-285	1	2	-	1, 6, 1, 2	1, 6, 1, 2	1, 6, 1, 2	I ₁ , I ₆ , I ₁ , I ₂	2 : 1		
E1	1	0	1	-578448	183565278	0	3	-	7, 18, 3, 1	7, 18, 3, 1	1, 18, 3, 1	I ₇ , I ₁₈ , I ₃ , I ₁	3 : 2	
E2	1	0	1	3562177	-168122222	0	3	-	21, 6, 9, 3	21, 6, 9, 3	1, 6, 9, 3	I ₂₁ , I ₆ , I ₉ , I ₃	3 : 1, 3	
E3	1	0	1	-50503198	-146507820272	0	1	-	63, 2, 3, 1	63, 2, 3, 1	1, 2, 3, 1	I ₆₃ , I ₂ , I ₃ , I ₁	3 : 2	
F1	1-1	1	-33898	2219177	1	2	+	22, 1, 2, 5	22, 1, 2, 5	22, 1, 2, 5	I ₂₂ , I ₁ , I ₂ , I ₅	2 : 2		

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910	$a_1 \ a_2 \ a_3$			a_4	$N = 910 = 2 \cdot 5 \cdot 7 \cdot 13$	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_{-}(j)$	c_p	Kodaira	Isogenies	910
	(continued)													
G1	1	-1	1	-33	81	1	1	-	5, 2, 1, 1	5, 2, 1, 1	5, 2, 1, 1	I_5, I_2, I_1, I_1		
H1	1	1	1	-196	5829	1	1	-	17, 2, 3, 1	17, 2, 3, 1	17, 2, 3, 1	I_{17}, I_2, I_3, I_1		
I1	1	1	1	-6	-1	0	2	+	2, 1, 2, 1	2, 1, 2, 1	2, 1, 2, 1	I_2, I_1, I_2, I_1	2 : 2	
I2	1	1	1	-76	223	0	2	+	1, 2, 1, 2	1, 2, 1, 2	1, 2, 1, 2	I_1, I_2, I_1, I_2	2 : 1	
J1	1	0	0	-1196	15760	0	6	+	18, 1, 2, 1	18, 1, 2, 1	18, 1, 2, 1	I_{18}, I_1, I_2, I_1	2 : 2; 3 : 3	
J2	1	0	0	-19116	1015696	0	6	+	9, 2, 1, 2	9, 2, 1, 2	9, 2, 1, 2	I_9, I_2, I_1, I_2	2 : 1; 3 : 4	
J3	1	0	0	-6636	-196784	0	6	+	6, 3, 6, 3	6, 3, 6, 3	6, 1, 6, 3	I_6, I_3, I_6, I_3	2 : 4; 3 : 1, 5	
J4	1	0	0	-20356	876120	0	6	+	3, 6, 3, 6	3, 6, 3, 6	3, 2, 3, 6	I_3, I_6, I_3, I_6	2 : 3; 3 : 2, 6	
J5	1	0	0	-528976	-148126020	0	2	+	2, 9, 2, 1	2, 9, 2, 1	2, 1, 2, 1	I_2, I_9, I_2, I_1	2 : 6; 3 : 3	
J6	1	0	0	-529046	-148084874	0	2	+	1, 18, 1, 2	1, 18, 1, 2	1, 2, 1, 2	I_1, I_{18}, I_1, I_2	2 : 5; 3 : 4	
K1	1	0	0	-1145	12025	1	2	+	14, 5, 2, 1	14, 5, 2, 1	14, 5, 2, 1	I_{14}, I_5, I_2, I_1	2 : 2	
K2	1	0	0	-5625	-151943	1	2	+	7, 10, 1, 2	7, 10, 1, 2	7, 10, 1, 2	I_7, I_{10}, I_1, I_2	2 : 1	
912	(12 isogeny classes)											912		
A1	0	-1	0	-57	-171	1	1	-	8, 6, 1	0, 6, 1	1, 2, 1	I_0^*, I_6, I_1		
B1	0	-1	0	-172	928	0	2	+	8, 3, 1	0, 3, 1	2, 1, 1	I_0^*, I_3, I_1	2 : 2	
B2	0	-1	0	-192	720	0	4	+	10, 6, 2	0, 6, 2	4, 2, 2	I_2^*, I_6, I_2	2 : 1, 3, 4	
B3	0	-1	0	-1272	-16560	0	2	+	11, 3, 4	0, 3, 4	2, 1, 4	I_3^*, I_3, I_4	2 : 2	
B4	0	-1	0	568	4368	0	2	-	11, 12, 1	0, 12, 1	4, 2, 1	I_3^*, I_{12}, I_1	2 : 2	
C1	0	1	0	55	-93	0	1	-	8, 2, 3	0, 2, 3	1, 2, 1	I_0^*, I_2, I_3		
D1	0	1	0	-16	-28	0	2	+	10, 1, 1	0, 1, 1	4, 1, 1	I_2^*, I_1, I_1	2 : 2	
D2	0	1	0	24	-108	0	2	-	11, 2, 2	0, 2, 2	2, 2, 2	I_3^*, I_2, I_2	2 : 1	
E1	0	-1	0	-128	0	0	2	+	18, 3, 1	6, 3, 1	4, 1, 1	I_{10}^*, I_3, I_1	2 : 2; 3 : 3	
E2	0	-1	0	512	-512	0	2	-	15, 6, 2	3, 6, 2	2, 2, 2	I_7^*, I_6, I_2	2 : 1; 3 : 4	
E3	0	-1	0	-6848	220416	0	2	+	14, 1, 3	2, 1, 3	4, 1, 1	I_6^*, I_1, I_3	2 : 4; 3 : 1	
E4	0	-1	0	-6688	231040	0	2	-	13, 2, 6	1, 2, 6	2, 2, 2	I_5^*, I_2, I_6	2 : 3; 3 : 2	
F1	0	-1	0	315	2349	1	1	-	12, 10, 1	0, 10, 1	1, 2, 1	II^*, I_{10}, I_1	5 : 2	
F2	0	-1	0	-70245	7189389	1	1	-	12, 2, 5	0, 2, 5	1, 2, 5	II^*, I_2, I_5	5 : 1	
G1	0	-1	0	-24	48	1	2	+	12, 1, 1	0, 1, 1	4, 1, 1	I_4^*, I_1, I_1	2 : 2	
G2	0	-1	0	-104	-336	1	4	+	12, 2, 2	0, 2, 2	4, 2, 2	I_4^*, I_2, I_2	2 : 1, 3, 4	
G3	0	-1	0	-1624	-24656	1	2	+	12, 4, 1	0, 4, 1	2, 2, 1	I_4^*, I_4, I_1	2 : 2	
G4	0	-1	0	136	-1872	1	4	-	12, 1, 4	0, 1, 4	4, 1, 4	I_4^*, I_1, I_4	2 : 2	
H1	0	1	0	-1528	22484	1	2	+	14, 5, 1	2, 5, 1	4, 5, 1	I_6^*, I_5, I_1	2 : 2	
H2	0	1	0	-1368	27540	1	2	-	13, 10, 2	1, 10, 2	4, 10, 2	I_5^*, I_{10}, I_2	2 : 1	
I1	0	1	0	3	-9	1	1	-	8, 2, 1	0, 2, 1	2, 2, 1	I_0^*, I_2, I_1		
J1	0	1	0	3	-18	0	2	-	4, 3, 2	0, 3, 2	1, 3, 2	II, I_3, I_2	2 : 2	
J2	0	1	0	-92	-360	0	2	+	8, 6, 1	0, 6, 1	1, 6, 1	I_0^*, I_6, I_1	2 : 1	
K1	0	1	0	-5632	144308	0	2	+	32, 3, 1	20, 3, 1	4, 3, 1	I_{24}^*, I_3, I_1	2 : 2	
K2	0	1	0	-87552	9941940	0	4	+	22, 6, 2	10, 6, 2	4, 6, 2	I_{14}^*, I_6, I_2	2 : 1, 3, 4	
K3	0	1	0	-1400832	637689780	0	2	+	17, 3, 1	5, 3, 1	4, 3, 1	I_9^*, I_3, I_1	2 : 2	
K4	0	1	0	-84992	10553268	0	4	-	17, 12, 4	5, 12, 4	2, 12, 4	I_9^*, I_{12}, I_4	2 : 2	
913	(2 isogeny classes)											913		
I1	0	1	0	-37	-109	0	1	-	12, 2, 1	0, 2, 1	1, 2, 1	II^*, I_2, I_1		

TABLE 1: ELLIPTIC CURVES 913B–918K

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
913	$N = 913 = 11 \cdot 83$ (continued)												
B1	0	0	1	-1	13	0	1	-	1, 2	1, 2	1, 2	I_1, I_2	
914	$N = 914 = 2 \cdot 457$ (2 isogeny classes)												
A1	1	-1	0	-52	-48	1	2	+	14, 1	14, 1	2, 1	I_{14}, I_1	2 : 2
A2	1	-1	0	-692	-6832	1	2	+	7, 2	7, 2	1, 2	I_7, I_2	2 : 1
B1	1	0	1	-2	-2	0	1	-	1, 1	1, 1	1, 1	I_1, I_1	
915	$N = 915 = 3 \cdot 5 \cdot 61$ (4 isogeny classes)												
A1	0	-1	1	-460	-11577	0	1	-	1, 7, 3	1, 7, 3	1, 7, 1	I_1, I_7, I_3	
B1	1	1	0	-57	144	1	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
B2	1	1	0	-62	111	1	4	+	4, 2, 2	4, 2, 2	2, 2, 2	I_4, I_2, I_2	2 : 1, 3, 4
B3	1	1	0	-367	-2756	1	2	+	8, 4, 1	8, 4, 1	2, 4, 1	I_8, I_4, I_1	2 : 2
B4	1	1	0	163	966	1	4	-	2, 1, 4	2, 1, 4	2, 1, 4	I_2, I_1, I_4	2 : 2
C1	0	1	1	-6	-25	0	1	-	3, 3, 1	3, 3, 1	3, 1, 1	I_3, I_3, I_1	
D1	1	0	0	50	107	1	2	-	3, 3, 2	3, 3, 2	3, 3, 2	I_3, I_3, I_2	2 : 2
D2	1	0	0	-255	900	1	2	+	6, 6, 1	6, 6, 1	6, 6, 1	I_6, I_6, I_1	2 : 1
916	$N = 916 = 2^2 \cdot 229$ (5 isogeny classes)												
A1	0	0	0	-71	-290	0	2	-	8, 2	0, 2	3, 2	IV^*, I_2	2 : 2
A2	0	0	0	-76	-255	0	2	+	4, 1	0, 1	3, 1	IV, I_1	2 : 1
B1	0	0	0	-1013692	392832257	0	1	+	4, 1	0, 1	3, 1	IV, I_1	
C1	0	0	0	-4	1	2	1	+	4, 1	0, 1	3, 1	IV, I_1	
D1	0	1	0	-77	236	1	3	+	4, 1	0, 1	3, 1	IV, I_1	3 : 2
D2	0	1	0	-157	-416	1	1	+	4, 3	0, 3	1, 3	IV, I_3	3 : 1
E1	0	-1	0	-5	-2	1	1	+	4, 1	0, 1	3, 1	IV, I_1	
918	$N = 918 = 2 \cdot 3^3 \cdot 17$ (12 isogeny classes)												
A1	1	-1	0	-24990	1526804	1	1	-	8, 11, 1	8, 0, 1	2, 1, 1	I_8, II^*, I_1	
B1	1	-1	0	0	-18	1	1	-	1, 5, 2	1, 0, 2	1, 3, 2	I_1, IV, I_2	
C1	1	-1	0	-771	-8875	1	1	-	11, 11, 1	11, 0, 1	1, 1, 1	I_{11}, II^*, I_1	
D1	1	-1	0	-48	-768	0	1	-	15, 3, 2	15, 0, 2	1, 1, 2	I_{15}, II, I_2	3 : 2
D2	1	-1	0	432	20448	0	3	-	5, 5, 6	5, 0, 6	1, 3, 6	I_5, IV, I_6	3 : 1
E1	1	-1	0	3	-3	1	1	-	3, 3, 1	3, 0, 1	1, 1, 1	I_3, II, I_1	3 : 2
E2	1	-1	0	-27	99	1	3	-	1, 5, 3	1, 0, 3	1, 1, 3	I_1, IV, I_3	3 : 1
F1	1	-1	0	24	48	1	3	-	4, 3, 3	4, 0, 3	2, 1, 3	I_4, II, I_3	3 : 2
F2	1	-1	0	-231	-2179	1	1	-	12, 9, 1	12, 0, 1	2, 3, 1	I_{12}, IV^*, I_1	3 : 1
G1	1	-1	1	-26	89	0	3	-	12, 3, 1	12, 0, 1	12, 1, 1	I_{12}, II, I_1	3 : 2
G2	1	-1	1	214	-1511	0	1	-	4, 9, 3	4, 0, 3	4, 1, 1	I_4, IV^*, I_3	3 : 1
H1	1	-1	1	-86	357	1	1	-	11, 5, 1	11, 0, 1	11, 3, 1	I_{11}, IV, I_1	
I1	1	-1	1	25	55	1	3	-	3, 9, 1	3, 0, 1	3, 3, 1	I_3, IV^*, I_1	3 : 2
I2	1	-1	1	-245	-2429	1	1	-	1, 11, 3	1, 0, 3	1, 1, 1	I_1, II^*, I_3	3 : 1
J1	1	-1	1	-434	21169	1	3	-	15, 9, 2	15, 0, 2	15, 3, 2	I_{15}, IV^*, I_2	3 : 2
J2	1	-1	1	3886	-555983	1	1	-	5, 11, 6	5, 0, 6	5, 1, 2	I_5, II^*, I_6	3 : 1

TABLE 1: ELLIPTIC CURVES 918L–926A

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
918	$N = 918 = 2 \cdot 3^3 \cdot 17$ (continued)												918
L1	1	-1	1	-2	487	0	1	-	1, 11, 2	1, 0, 2	1, 1, 2	I_1, II^*, I_2	
920	$N = 920 = 2^3 \cdot 5 \cdot 23$ (4 isogeny classes)												920
A1	0	0	0	1468	-2844	1	1	-	8, 3, 5	0, 3, 5	4, 3, 5	I_1^*, I_3, I_5	
B1	0	0	0	-187	991	1	1	-	4, 6, 1	0, 6, 1	2, 6, 1	III, I_6, I_1	
C1	0	1	0	4	5	1	1	-	4, 2, 1	0, 2, 1	2, 2, 1	III, I_2, I_1	
D1	0	-1	0	0	-23	1	1	-	4, 4, 1	0, 4, 1	2, 4, 1	III, I_4, I_1	
921	$N = 921 = 3 \cdot 307$ (2 isogeny classes)												921
A1	0	-1	1	-3058	-64080	0	1	-	6, 1	6, 1	2, 1	I_6, I_1	
B1	0	1	1	-23	41	1	3	-	6, 1	6, 1	6, 1	I_6, I_1	3 : 2
B2	0	1	1	157	-130	1	1	-	2, 3	2, 3	2, 3	I_2, I_3	3 : 1
922	$N = 922 = 2 \cdot 461$ (1 isogeny class)												922
A1	1	0	0	-2	-2	0	1	-	1, 1	1, 1	1, 1	I_1, I_1	
923	$N = 923 = 13 \cdot 71$ (1 isogeny class)												923
A1	0	0	1	-4	19	0	1	-	3, 1	3, 1	1, 1	I_3, I_1	
924	$N = 924 = 2^2 \cdot 3 \cdot 7 \cdot 11$ (8 isogeny classes)												924
A1	0	-1	0	25158	-775719	0	1	-	4, 5, 5, 7	0, 5, 5, 7	3, 1, 1, 1	IV, I_5, I_5, I_7	
B1	0	-1	0	14	1057	1	1	-	4, 3, 1, 5	0, 3, 1, 5	3, 1, 1, 5	IV, I_3, I_1, I_5	
C1	0	-1	0	14	-11	1	1	-	4, 1, 3, 1	0, 1, 3, 1	1, 1, 3, 1	IV, I_1, I_3, I_1	
D1	0	-1	0	-470	-4311	0	1	-	4, 13, 1, 1	0, 13, 1, 1	3, 1, 1, 1	IV, I_{13}, I_1, I_1	
E1	0	1	0	-22	41	1	1	-	4, 5, 1, 1	0, 5, 1, 1	3, 5, 1, 1	IV, I_5, I_1, I_1	
F1	0	1	0	-1706	-27699	0	1	-	4, 5, 3, 1	0, 5, 3, 1	1, 5, 1, 1	IV, I_5, I_3, I_1	
G1	0	1	0	6	9	0	3	-	4, 3, 1, 1	0, 3, 1, 1	3, 3, 1, 1	IV, I_3, I_1, I_1	3 : 2
G2	0	1	0	-54	-291	0	1	-	4, 1, 3, 3	0, 1, 3, 3	1, 1, 3, 1	IV, I_1, I_3, I_3	3 : 1
H1	0	1	0	-17242	875009	1	3	-	4, 9, 5, 3	0, 9, 5, 3	3, 9, 5, 3	IV, I_9, I_5, I_3	3 : 2
H2	0	1	0	59978	4520981	1	1	-	4, 3, 15, 1	0, 3, 15, 1	1, 3, 15, 1	IV, I_3, I_{15}, I_1	3 : 1
925	$N = 925 = 5^2 \cdot 37$ (5 isogeny classes)												925
A1	0	1	1	-133	519	1	1	+	8, 1	2, 1	2, 1	I_2^*, I_1	
B1	0	-1	1	-83	318	1	1	+	6, 1	0, 1	2, 1	I_0^*, I_1	3 : 2
B2	0	-1	1	-583	-5057	1	1	+	6, 3	0, 3	2, 1	I_0^*, I_3	3 : 1, 3
B3	0	-1	1	-46833	-3885432	1	1	+	6, 1	0, 1	2, 1	I_0^*, I_1	3 : 2
C1	1	1	1	-88	-344	0	2	+	7, 1	1, 1	4, 1	I_1^*, I_1	2 : 2
C2	1	1	1	37	-1094	0	2	-	8, 2	2, 2	4, 2	I_2^*, I_2	2 : 1
D1	0	-1	1	-3908	95343	0	1	+	10, 1	4, 1	2, 1	I_4^*, I_1	
E1	0	0	1	-25	31	0	1	+	6, 1	0, 1	2, 1	I_0^*, I_1	
926	$N = 926 = 2 \cdot 463$ (1 isogeny class)												926
A1	1	1	1	7	7	0	2	-	6, 1	6, 1	6, 1	I_6, I_1	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
927	$N = 927 = 3^2 \cdot 103$ (1 isogeny class)												927
A1	1	-1	0	-54	-243	1	1	-	11, 1	5, 1	2, 1	I_5^*, I_1	
928	$N = 928 = 2^5 \cdot 29$ (2 isogeny classes)												928
A1	0	1	0	-1	-17	1	1	-	12, 1	0, 1	4, 1	I_3^*, I_1	
B1	0	-1	0	-1	17	1	1	-	12, 1	0, 1	4, 1	I_3^*, I_1	
930	$N = 930 = 2 \cdot 3 \cdot 5 \cdot 31$ (15 isogeny classes)												930
A1	1	1	0	-108	-432	1	2	+	12, 3, 1, 1	12, 3, 1, 1	2, 1, 1, 1	I_{12}, I_3, I_1, I_1	2 : 2
A2	1	1	0	-428	2832	1	4	+	6, 6, 2, 2	6, 6, 2, 2	2, 2, 2, 2	I_6, I_6, I_2, I_2	2 : 1, 3, 4
A3	1	1	0	-6628	204952	1	2	+	3, 12, 1, 1	3, 12, 1, 1	1, 2, 1, 1	I_3, I_{12}, I_1, I_1	2 : 2
A4	1	1	0	652	16008	1	2	-	3, 3, 4, 4	3, 3, 4, 4	1, 1, 2, 2	I_3, I_3, I_4, I_4	2 : 2
B1	1	1	0	-203	-1347	0	1	-	9, 1, 5, 1	9, 1, 5, 1	1, 1, 1, 1	I_9, I_1, I_5, I_1	
C1	1	1	0	98	244	0	1	-	11, 5, 1, 1	11, 5, 1, 1	1, 1, 1, 1	I_{11}, I_5, I_1, I_1	
D1	1	1	0	2238	181236	1	2	-	16, 1, 7, 2	16, 1, 7, 2	2, 1, 7, 2	I_{16}, I_1, I_7, I_2	2 : 2
D2	1	1	0	-37442	2585844	1	2	+	8, 2, 14, 1	8, 2, 14, 1	2, 2, 14, 1	I_8, I_2, I_{14}, I_1	2 : 1
E1	1	1	0	3	9	1	2	-	2, 2, 2, 1	2, 2, 2, 1	2, 2, 2, 1	I_2, I_2, I_2, I_1	2 : 2
E2	1	1	0	-47	99	1	2	+	1, 4, 1, 2	1, 4, 1, 2	1, 2, 1, 2	I_1, I_4, I_1, I_2	2 : 1
F1	1	0	1	-10400749	13377941672	0	1	-	23, 11, 3, 5	23, 11, 3, 5	1, 11, 1, 1	I_{23}, I_{11}, I_3, I_5	
G1	1	0	1	-244	1442	0	2	+	4, 1, 3, 1	4, 1, 3, 1	2, 1, 1, 1	I_4, I_1, I_3, I_1	2 : 2
G2	1	0	1	-264	1186	0	4	+	2, 2, 6, 2	2, 2, 6, 2	2, 2, 2, 2	I_2, I_2, I_6, I_2	2 : 1, 3, 4
G3	1	0	1	-1514	-21814	0	2	+	1, 4, 3, 4	1, 4, 3, 4	1, 4, 1, 2	I_1, I_4, I_3, I_4	2 : 2
G4	1	0	1	666	7882	0	2	-	1, 1, 12, 1	1, 1, 12, 1	1, 1, 2, 1	I_1, I_1, I_{12}, I_1	2 : 2
H1	1	0	1	467	-1432	1	2	-	8, 5, 3, 2	8, 5, 3, 2	2, 5, 3, 2	I_8, I_5, I_3, I_2	2 : 2
H2	1	0	1	-2013	-12344	1	2	+	4, 10, 6, 1	4, 10, 6, 1	2, 10, 6, 1	I_4, I_{10}, I_6, I_1	2 : 1
I1	1	0	1	2	-22	0	3	-	1, 3, 3, 1	1, 3, 3, 1	1, 3, 3, 1	I_1, I_3, I_3, I_1	3 : 2
I2	1	0	1	-523	-4642	0	1	-	3, 1, 1, 3	3, 1, 1, 3	1, 1, 1, 3	I_3, I_1, I_1, I_3	3 : 1
J1	1	0	1	-13648	613406	0	2	-	26, 2, 2, 1	26, 2, 2, 1	2, 2, 2, 1	I_{26}, I_2, I_2, I_1	2 : 2
J2	1	0	1	-218448	39279646	0	2	+	13, 4, 1, 2	13, 4, 1, 2	1, 4, 1, 2	I_{13}, I_4, I_1, I_2	2 : 1
K1	1	1	1	-41	-121	0	2	-	4, 1, 1, 2	4, 1, 1, 2	4, 1, 1, 2	I_4, I_1, I_1, I_2	2 : 2
K2	1	1	1	-661	-6817	0	2	+	2, 2, 2, 1	2, 2, 2, 1	2, 2, 2, 1	I_2, I_2, I_2, I_1	2 : 1
L1	1	1	1	-23051	1344449	0	1	-	3, 3, 13, 1	3, 3, 13, 1	3, 1, 1, 1	I_3, I_3, I_{13}, I_1	
M1	1	1	1	39	39	1	2	-	6, 4, 2, 1	6, 4, 2, 1	6, 2, 2, 1	I_6, I_4, I_2, I_1	2 : 2
M2	1	1	1	-161	119	1	2	+	3, 8, 1, 2	3, 8, 1, 2	3, 2, 1, 2	I_3, I_8, I_1, I_2	2 : 1
N1	1	0	0	1389	-22239	0	6	-	12, 9, 1, 2	12, 9, 1, 2	12, 9, 1, 2	I_{12}, I_9, I_1, I_2	2 : 2; 3 : 3
N2	1	0	0	-8531	-218655	0	6	+	6, 18, 2, 1	6, 18, 2, 1	6, 18, 2, 1	I_6, I_{18}, I_2, I_1	2 : 1; 3 : 4
N3	1	0	0	-39651	-3060495	0	2	-	4, 3, 3, 6	4, 3, 3, 6	4, 3, 1, 6	I_4, I_3, I_3, I_6	2 : 4; 3 : 1
N4	1	0	0	-635471	-195033699	0	2	+	2, 6, 6, 3	2, 6, 6, 3	2, 6, 2, 3	I_2, I_6, I_6, I_3	2 : 3; 3 : 2
O1	1	0	0	60	-1008	0	4	-	16, 2, 2, 1	16, 2, 2, 1	16, 2, 2, 1	I_{16}, I_2, I_2, I_1	2 : 2
O2	1	0	0	-1220	-15600	0	8	+	8, 4, 4, 2	8, 4, 4, 2	8, 4, 4, 2	I_8, I_4, I_4, I_2	2 : 1, 3, 4
O3	1	0	0	-19220	-1027200	0	4	+	4, 2, 2, 4	4, 2, 2, 4	4, 2, 2, 2	I_4, I_2, I_2, I_4	2 : 2, 5, 6
O4	1	0	0	-3700	67232	0	8	+	4, 8, 8, 1	4, 8, 8, 1	4, 8, 8, 1	I_4, I_8, I_8, I_1	2 : 2
O5	1	0	0	-307520	-65664060	0	2	+	2, 1, 1, 2	2, 1, 1, 2	2, 1, 1, 2	I_2, I_1, I_1, I_2	2 : 3

TABLE 1: ELLIPTIC CURVES 931A–936I

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
931	$N = 931 = 7^2 \cdot 19$ (3 isogeny classes)												931
A1	0	-1	1	-114	727	0	1	-	8, 1	0, 1	3, 1	IV*, I ₁	
B1	0	-1	1	33	-8	0	1	-	6, 1	0, 1	1, 1	I ₀ *, I ₁	3 : 2
B2	0	-1	1	-457	4157	0	1	-	6, 3	0, 3	1, 1	I ₀ *, I ₃	3 : 1, 3
B3	0	-1	1	-37697	2829742	0	1	-	6, 1	0, 1	1, 1	I ₀ *, I ₁	3 : 2
C1	0	1	1	-2	-3	0	1	-	2, 1	0, 1	1, 1	II, I ₁	
933	$N = 933 = 3 \cdot 311$ (2 isogeny classes)												933
A1	0	-1	1	-3	-1	1	1	+	1, 1	1, 1	1, 1	I ₁ , I ₁	
B1	0	1	1	-399	-3184	1	1	+	11, 1	11, 1	11, 1	I ₁₁ , I ₁	
934	$N = 934 = 2 \cdot 467$ (3 isogeny classes)												934
A1	1	0	1	-3	0	1	1	+	1, 1	1, 1	1, 1	I ₁ , I ₁	
B1	1	0	0	-129	521	0	3	+	15, 1	15, 1	15, 1	I ₁₅ , I ₁	3 : 2
B2	1	0	0	-1889	-31639	0	1	+	5, 3	5, 3	5, 1	I ₅ , I ₃	3 : 1
C1	1	-1	1	-183	-905	0	1	+	3, 1	3, 1	3, 1	I ₃ , I ₁	
935	$N = 935 = 5 \cdot 11 \cdot 17$ (2 isogeny classes)												935
A1	0	1	1	-1	-4	1	1	-	2, 1, 1	2, 1, 1	2, 1, 1	I ₂ , I ₁ , I ₁	
B1	0	1	1	-13155	576381	0	3	-	6, 3, 1	6, 3, 1	6, 1, 1	I ₆ , I ₃ , I ₁	3 : 2
B2	0	1	1	-9655	893306	0	1	-	2, 9, 3	2, 9, 3	2, 1, 1	I ₂ , I ₉ , I ₃	3 : 1
936	$N = 936 = 2^3 \cdot 3^2 \cdot 13$ (9 isogeny classes)												936
A1	0	0	0	9	10	1	2	-	8, 3, 1	0, 0, 1	2, 2, 1	I ₁ *, III, I ₁	2 : 2
A2	0	0	0	-51	94	1	2	+	10, 3, 2	0, 0, 2	2, 2, 2	III*, III, I ₂	2 : 1
B1	0	0	0	-147	718	0	1	-	11, 6, 1	0, 0, 1	1, 1, 1	II*, I ₀ *, I ₁	
C1	0	0	0	42	-335	0	2	-	4, 9, 2	0, 3, 2	2, 2, 2	III, I ₃ *, I ₂	2 : 2
C2	0	0	0	-543	-4430	0	2	+	8, 12, 1	0, 6, 1	2, 4, 1	I ₁ *, I ₆ *, I ₁	2 : 1
D1	0	0	0	-5862	-162295	0	2	+	4, 16, 3	0, 10, 3	2, 4, 1	III, I ₁₀ *, I ₃	2 : 2
D2	0	0	0	5073	-698110	0	2	-	8, 11, 6	0, 5, 6	2, 4, 2	I ₁ *, I ₅ *, I ₆	2 : 1
E1	0	0	0	-66	-119	1	2	+	4, 10, 1	0, 4, 1	2, 4, 1	III, I ₄ *, I ₁	2 : 2
E2	0	0	0	-471	3850	1	4	+	8, 8, 2	0, 2, 2	2, 4, 2	I ₁ *, I ₂ *, I ₂	2 : 1, 3, 4
E3	0	0	0	-7491	249550	1	4	+	10, 7, 1	0, 1, 1	2, 4, 1	III*, I ₁ *, I ₁	2 : 2
E4	0	0	0	69	12166	1	2	-	10, 7, 4	0, 1, 4	2, 2, 4	III*, I ₁ *, I ₄	2 : 2
F1	0	0	0	81	-270	0	2	-	8, 9, 1	0, 0, 1	4, 2, 1	I ₁ *, III*, I ₁	2 : 2
F2	0	0	0	-459	-2538	0	2	+	10, 9, 2	0, 0, 2	2, 2, 2	III*, III*, I ₂	2 : 1
G1	0	0	0	-30	133	1	2	-	4, 7, 2	0, 1, 2	2, 2, 2	III, I ₁ *, I ₂	2 : 2
G2	0	0	0	-615	5866	1	2	+	8, 8, 1	0, 2, 1	4, 4, 1	I ₁ *, I ₂ *, I ₁	2 : 1
H1	0	0	0	-30	29	1	2	+	4, 8, 1	0, 2, 1	2, 4, 1	III, I ₂ *, I ₁	2 : 2
H2	0	0	0	105	218	1	2	-	8, 7, 2	0, 1, 2	4, 4, 2	I ₁ *, I ₁ *, I ₂	2 : 1
I1	0	0	0	-354	-2563	0	2	+	4, 8, 1	0, 2, 1	2, 4, 1	III, I ₂ *, I ₁	2 : 2
I2	0	0	0	-399	-1870	0	4	+	8, 10, 2	0, 4, 2	4, 4, 2	I ₁ *, I ₄ *, I ₂	2 : 1, 3, 4
I3	0	0	0	-2739	53822	0	2	+	10, 14, 1	0, 8, 1	2, 4, 1	III*, I ₁ *, I ₁	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
938	$N = 938 = 2 \cdot 7 \cdot 67$ (4 isogeny classes)												938
A1	1	0	1	-4	-2	1	1	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	
B1	1	0	1	-365	13608	1	2	-	10, 5, 2	10, 5, 2	2, 5, 2	I_{10}, I_5, I_2	2 : 2
B2	1	0	1	-11085	446696	1	2	+	5, 10, 1	5, 10, 1	1, 10, 1	I_5, I_{10}, I_1	2 : 1
C1	1	1	1	-56	-135	1	1	+	8, 3, 1	8, 3, 1	8, 3, 1	I_8, I_3, I_1	
D1	1	0	0	-179	737	0	3	+	18, 1, 1	18, 1, 1	18, 1, 1	I_{18}, I_1, I_1	3 : 2
D2	1	0	0	-4339	-110303	0	3	+	6, 3, 3	6, 3, 3	6, 3, 3	I_6, I_3, I_3	3 : 1, 3
D3	1	0	0	-351399	-80206123	0	1	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	3 : 2
939	$N = 939 = 3 \cdot 313$ (3 isogeny classes)												939
A1	0	-1	1	-321	-9817	1	1	-	17, 1	17, 1	1, 1	I_{17}, I_1	
B1	1	0	1	-6	-5	1	2	+	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
B2	1	0	1	9	-23	1	2	-	1, 2	1, 2	1, 2	I_1, I_2	2 : 1
C1	0	1	1	4	14	1	1	-	5, 1	5, 1	5, 1	I_5, I_1	
940	$N = 940 = 2^2 \cdot 5 \cdot 47$ (5 isogeny classes)												940
A1	0	1	0	21619	-57905	0	1	-	8, 1, 7	0, 1, 7	3, 1, 1	IV^*, I_1, I_7	
B1	0	0	0	-103	398	0	1	+	8, 3, 1	0, 3, 1	1, 1, 1	IV^*, I_3, I_1	
C1	0	1	0	-7076	226340	1	3	+	8, 5, 3	0, 5, 3	3, 1, 3	IV^*, I_5, I_3	3 : 2
C2	0	1	0	-31516	-1956716	1	1	+	8, 15, 1	0, 15, 1	1, 1, 1	IV^*, I_{15}, I_1	3 : 1
D1	0	-1	0	-20	40	1	1	+	8, 1, 1	0, 1, 1	3, 1, 1	IV^*, I_1, I_1	
E1	0	-1	0	-45	-103	0	1	-	8, 1, 1	0, 1, 1	3, 1, 1	IV^*, I_1, I_1	
942	$N = 942 = 2 \cdot 3 \cdot 157$ (4 isogeny classes)												942
A1	1	0	1	15	4	0	1	-	9, 1, 1	9, 1, 1	1, 1, 1	I_9, I_1, I_1	
B1	1	1	1	-215539	-38605903	0	1	-	8, 18, 1	8, 18, 1	8, 2, 1	I_8, I_{18}, I_1	
C1	1	0	0	146	37508	1	1	-	16, 10, 1	16, 10, 1	16, 10, 1	I_{16}, I_{10}, I_1	
D1	1	0	0	-65	201	1	1	-	6, 4, 1	6, 4, 1	6, 4, 1	I_6, I_4, I_1	
943	$N = 943 = 23 \cdot 41$ (1 isogeny class)												943
A1	1	-1	0	-13	24	0	2	-	1, 2	1, 2	1, 2	I_1, I_2	2 : 2
A2	1	-1	0	-218	1295	0	2	+	2, 1	2, 1	2, 1	I_2, I_1	2 : 1
944	$N = 944 = 2^4 \cdot 59$ (11 isogeny classes)												944
A1	0	1	0	4	-4	1	1	-	8, 1	0, 1	2, 1	I_0^*, I_1	
B1	0	1	0	-276	1676	1	1	-	8, 1	0, 1	2, 1	I_0^*, I_1	
C1	0	1	0	8	-12	1	1	-	11, 1	0, 1	4, 1	I_3^*, I_1	
D1	0	0	0	2	-1	0	1	-	4, 1	0, 1	1, 1	II, I_1	
E1	0	0	0	-19	34	2	1	-	10, 1	0, 1	4, 1	I_2^*, I_1	
F1	0	1	0	-1	-2	0	1	-	4, 1	0, 1	1, 1	II, I_1	
G1	0	1	0	888	14068	0	1	-	31, 1	19, 1	2, 1	I_{23}^*, I_1	
H1	0	1	0	-400	-3308	1	1	-	22, 1	10, 1	4, 1	I_{14}^*, I_1	5 : 2
H2	0	1	0	1840	162452	1	1	-	14, 5	2, 5	4, 5	I_6^*, I_5	5 : 1

TABLE 1: ELLIPTIC CURVES 944J–954I

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
944	$N = 944 = 2^4 \cdot 59$ (continued)												944
J1	0	-1	0	-9	-8	1	1	-	4, 1	0, 1	1, 1	II, I ₁	3 : 2
J2	0	-1	0	31	-68	1	1	-	4, 3	0, 3	1, 3	II, I ₃	3 : 1
K1	0	1	0	-64	180	1	1	-	13, 1	1, 1	4, 1	I ₅ [*] , I ₁	
946	$N = 946 = 2 \cdot 11 \cdot 43$ (3 isogeny classes)												946
A1	1	-1	0	-11	-11	0	2	+	4, 1, 1	4, 1, 1	2, 1, 1	I ₄ , I ₁ , I ₁	2 : 2
A2	1	-1	0	-31	57	0	4	+	2, 2, 2	2, 2, 2	2, 2, 2	I ₂ , I ₂ , I ₂	2 : 1, 3, 4
A3	1	-1	0	-461	3927	0	2	+	1, 4, 1	1, 4, 1	1, 2, 1	I ₁ , I ₄ , I ₁	2 : 2
A4	1	-1	0	79	299	0	2	-	1, 1, 4	1, 1, 4	1, 1, 4	I ₁ , I ₁ , I ₄	2 : 2
B1	1	0	1	14	-8	1	3	-	2, 3, 1	2, 3, 1	2, 3, 1	I ₂ , I ₃ , I ₁	3 : 2
B2	1	0	1	-261	-1680	1	1	-	6, 1, 3	6, 1, 3	2, 1, 3	I ₆ , I ₁ , I ₃	3 : 1
C1	1	0	0	-1806	-29692	0	1	-	10, 1, 1	10, 1, 1	10, 1, 1	I ₁₀ , I ₁ , I ₁	
948	$N = 948 = 2^3 \cdot 3 \cdot 79$ (3 isogeny classes)												948
A1	0	-1	0	-17	-78	0	2	-	4, 3, 2	0, 3, 2	3, 1, 2	IV, I ₃ , I ₂	2 : 2
A2	0	-1	0	-412	-3080	0	2	+	8, 6, 1	0, 6, 1	3, 2, 1	IV [*] , I ₆ , I ₁	2 : 1
B1	0	-1	0	-796	8968	0	1	-	8, 9, 1	0, 9, 1	1, 1, 1	IV [*] , I ₉ , I ₁	
C1	0	1	0	12	36	0	3	-	8, 3, 1	0, 3, 1	3, 3, 1	IV [*] , I ₃ , I ₁	3 : 2
C2	0	1	0	-108	-1068	0	1	-	8, 1, 3	0, 1, 3	1, 1, 3	IV [*] , I ₁ , I ₃	3 : 1
950	$N = 950 = 2 \cdot 5^2 \cdot 19$ (5 isogeny classes)												950
A1	1	0	1	-1	148	1	1	-	5, 6, 1	5, 0, 1	1, 2, 1	I ₅ , I ₀ [*] , I ₁	5 : 2
A2	1	0	1	-1751	-31352	1	1	-	1, 6, 5	1, 0, 5	1, 2, 1	I ₁ , I ₀ [*] , I ₅	5 : 1
B1	1	1	0	-750	-12500	0	1	-	3, 12, 1	3, 6, 1	1, 2, 1	I ₃ , I ₆ [*] , I ₁	3 : 2
B2	1	1	0	-69500	-7081250	0	1	-	1, 8, 3	1, 2, 3	1, 2, 3	I ₁ , I ₂ [*] , I ₃	3 : 1
C1	1	-1	0	-1192	17216	0	1	-	11, 8, 1	11, 2, 1	1, 2, 1	I ₁₁ , I ₂ [*] , I ₁	
D1	1	0	0	37	167	0	1	-	1, 8, 1	1, 2, 1	1, 2, 1	I ₁ , I ₂ [*] , I ₁	
E1	1	1	1	-388	2781	1	1	-	3, 6, 1	3, 0, 1	3, 2, 1	I ₃ , I ₀ [*] , I ₁	3 : 2
E2	1	1	1	237	11281	1	1	-	9, 6, 3	9, 0, 3	9, 2, 3	I ₉ , I ₀ [*] , I ₃	3 : 1, 3
E3	1	1	1	-2138	-306969	1	1	-	27, 6, 1	27, 0, 1	27, 2, 1	I ₂₇ , I ₀ [*] , I ₁	3 : 2
954	$N = 954 = 2 \cdot 3^2 \cdot 53$ (13 isogeny classes)												954
A1	1	-1	0	-96	-640	1	1	-	7, 9, 1	7, 0, 1	1, 2, 1	I ₇ , III [*] , I ₁	
B1	1	-1	0	12	-100	0	2	-	2, 9, 1	2, 0, 1	2, 2, 1	I ₂ , III [*] , I ₁	2 : 2
B2	1	-1	0	-258	-1450	0	2	+	1, 9, 2	1, 0, 2	1, 2, 2	I ₁ , III [*] , I ₂	2 : 1
C1	1	-1	0	-108	-1328	0	1	-	11, 8, 1	11, 2, 1	1, 2, 1	I ₁₁ , I ₂ [*] , I ₁	
D1	1	-1	0	18	202	1	1	-	1, 11, 1	1, 5, 1	1, 4, 1	I ₁ , I ₅ [*] , I ₁	
E1	1	-1	0	-2547	63477	1	1	-	24, 6, 1	24, 0, 1	2, 1, 1	I ₂₄ , I ₀ [*] , I ₁	3 : 2
E2	1	-1	0	-221427	40159989	1	3	-	8, 6, 3	8, 0, 3	2, 1, 3	I ₈ , I ₀ [*] , I ₃	3 : 1
F1	1	-1	0	9	-27	1	1	-	3, 6, 1	3, 0, 1	1, 2, 1	I ₃ , I ₀ [*] , I ₁	3 : 2
F2	1	-1	0	-81	783	1	3	-	1, 6, 3	1, 0, 3	1, 2, 3	I ₁ , I ₀ [*] , I ₃	3 : 1
G1	1	-1	1	1	3	0	2	-	2, 3, 1	2, 0, 1	2, 2, 1	I ₂ , III, I ₁	2 : 2
G2	1	-1	1	-29	63	0	2	+	1, 3, 2	1, 0, 2	1, 2, 2	I ₁ , III, I ₂	2 : 1
H1	1	-1	1	-11	27	1	1	-	7, 3, 1	7, 0, 1	7, 2, 1	I ₇ , III, I ₁	

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
954	$N = 954 = 2 \cdot 3^2 \cdot 53$ (continued)												954
J1	1	-1	1	1273	-3585	1	1	-	17, 9, 1	17, 3, 1	17, 4, 1	I_{17}, I_3^*, I_1	
K1	1	-1	1	-545	-4759	0	1	-	3, 9, 1	3, 3, 1	3, 2, 1	I_3, I_3^*, I_1	3 : 2
K2	1	-1	1	400	-19501	0	3	-	9, 7, 3	9, 1, 3	9, 2, 3	I_9, I_1^*, I_3	3 : 1
L1	1	-1	1	58	303	0	1	-	1, 12, 1	1, 6, 1	1, 2, 1	I_1, I_6^*, I_1	
M1	1	-1	1	-68	-201	0	1	-	4, 6, 1	4, 0, 1	4, 1, 1	I_4, I_0^*, I_1	
955	$N = 955 = 5 \cdot 191$ (1 isogeny class)												955
A1	1	-1	1	-1038	13292	0	2	-	10, 1	10, 1	2, 1	I_{10}, I_1	2 : 2
A2	1	-1	1	-16663	832042	0	2	+	5, 2	5, 2	1, 2	I_5, I_2	2 : 1
956	$N = 956 = 2^2 \cdot 239$ (1 isogeny class)												956
A1	0	0	0	-1	-3	0	1	-	4, 1	0, 1	1, 1	IV, I_1	
957	$N = 957 = 3 \cdot 11 \cdot 29$ (1 isogeny class)												957
A1	1	1	0	-491	3984	0	2	+	7, 1, 2	7, 1, 2	1, 1, 2	I_7, I_1, I_2	2 : 2
A2	1	1	0	-346	6565	0	2	-	14, 2, 1	14, 2, 1	2, 2, 1	I_{14}, I_2, I_1	2 : 1
960	$N = 960 = 2^6 \cdot 3 \cdot 5$ (16 isogeny classes)												960
A1	0	-1	0	4	6	1	2	-	6, 4, 1	0, 4, 1	1, 2, 1	II, I_4, I_1	2 : 2
A2	0	-1	0	-41	105	1	4	+	12, 2, 2	0, 2, 2	4, 2, 2	I_2^*, I_2, I_2	2 : 1, 3, 4
A3	0	-1	0	-161	-639	1	2	+	15, 1, 4	0, 1, 4	2, 1, 2	I_5^*, I_1, I_4	2 : 2
A4	0	-1	0	-641	6465	1	2	+	15, 1, 1	0, 1, 1	2, 1, 1	I_5^*, I_1, I_1	2 : 2
B1	0	-1	0	-61	205	1	2	+	10, 2, 1	0, 2, 1	2, 2, 1	I_0^*, I_2, I_1	2 : 2
B2	0	-1	0	-81	81	1	4	+	14, 4, 2	0, 4, 2	4, 2, 2	I_4^*, I_4, I_2	2 : 1, 3, 4
B3	0	-1	0	-801	-8415	1	4	+	16, 2, 4	0, 2, 4	4, 2, 2	I_6^*, I_2, I_4	2 : 2, 5, 6
B4	0	-1	0	319	321	1	2	-	16, 8, 1	0, 8, 1	2, 2, 1	I_6^*, I_8, I_1	2 : 2
B5	0	-1	0	-12801	-553215	1	2	+	17, 1, 2	0, 1, 2	2, 1, 2	I_7^*, I_1, I_2	2 : 3
B6	0	-1	0	-321	-18879	1	2	-	17, 1, 8	0, 1, 8	2, 1, 2	I_7^*, I_1, I_8	2 : 3
C1	0	-1	0	15	-15	0	2	-	14, 1, 1	0, 1, 1	4, 1, 1	I_4^*, I_1, I_1	2 : 2
C2	0	-1	0	-65	-63	0	4	+	16, 2, 2	0, 2, 2	4, 2, 2	I_6^*, I_2, I_2	2 : 1, 3, 4
C3	0	-1	0	-865	-9503	0	2	+	17, 4, 1	0, 4, 1	4, 2, 1	I_7^*, I_4, I_1	2 : 2
C4	0	-1	0	-545	5025	0	4	+	17, 1, 4	0, 1, 4	4, 1, 4	I_7^*, I_1, I_4	2 : 2
D1	0	-1	0	-900	-10098	0	2	+	6, 3, 2	0, 3, 2	1, 1, 2	II, I_3, I_2	2 : 2
D2	0	-1	0	-905	-9975	0	4	+	12, 6, 4	0, 6, 4	4, 2, 4	I_2^*, I_6, I_4	2 : 1, 3, 4
D3	0	-1	0	-1985	19617	0	4	+	15, 3, 8	0, 3, 8	4, 1, 8	I_5^*, I_3, I_8	2 : 2
D4	0	-1	0	95	-31775	0	2	-	15, 12, 2	0, 12, 2	4, 2, 2	I_5^*, I_{12}, I_2	2 : 2
E1	0	-1	0	95	1057	0	2	-	22, 3, 1	4, 3, 1	4, 1, 1	I_{12}^*, I_3, I_1	2 : 2; 3 : 3
E2	0	-1	0	-1185	14625	0	4	+	20, 6, 2	2, 6, 2	4, 2, 2	I_{10}^*, I_6, I_2	2 : 1, 4, 5; 3 : 6
E3	0	-1	0	-865	-31775	0	2	-	30, 1, 3	12, 1, 3	4, 1, 3	I_{20}^*, I_1, I_3	2 : 6; 3 : 1
E4	0	-1	0	-4385	-94815	0	2	+	19, 12, 1	1, 12, 1	4, 2, 1	I_9^*, I_{12}, I_1	2 : 2; 3 : 7
E5	0	-1	0	-18465	971937	0	4	+	19, 3, 4	1, 3, 4	4, 1, 4	I_9^*, I_3, I_4	2 : 2; 3 : 8
E6	0	-1	0	-21345	-1190943	0	4	+	24, 2, 6	6, 2, 6	4, 2, 6	I_{14}^*, I_2, I_6	2 : 3, 7, 8; 3 : 2
E7	0	-1	0	-341345	-76646943	0	2	+	21, 4, 3	3, 4, 3	4, 2, 3	I_4^*, I_4, I_2	2 : 6; 3 : 4

TABLE 1: ELLIPTIC CURVES 960F–960N

960	a_1	a_2	a_3	a_4	$N = 960 = 2^6 \cdot 3 \cdot 5$	$r = 1$	Γ	$\text{ord}(X)$	$\text{ord}(Y)$	c_p	Kodaira	Isogenies	960
F1	0	1	0	4	-6	0	2	-	6, 4, 1	0, 4, 1	1, 4, 1	Π, I_4, I_1	2 : 2
F2	0	1	0	-41	-105	0	4	+	12, 2, 2	0, 2, 2	4, 2, 2	I_2^*, I_2, I_2	2 : 1, 3, 4
F3	0	1	0	-641	-6465	0	2	+	15, 1, 1	0, 1, 1	2, 1, 1	I_5^*, I_1, I_1	2 : 2
F4	0	1	0	-161	639	0	2	+	15, 1, 4	0, 1, 4	2, 1, 2	I_5^*, I_1, I_4	2 : 2
G1	0	1	0	-1	95	0	2	-	18, 1, 1	0, 1, 1	4, 1, 1	I_8^*, I_1, I_1	2 : 2
G2	0	1	0	-321	2079	0	4	+	18, 2, 2	0, 2, 2	4, 2, 2	I_8^*, I_2, I_2	2 : 1, 3, 4
G3	0	1	0	-641	-3105	0	4	+	18, 4, 4	0, 4, 4	4, 4, 2	I_8^*, I_4, I_4	2 : 2, 5, 6
G4	0	1	0	-5121	139359	0	2	+	18, 1, 1	0, 1, 1	4, 1, 1	I_8^*, I_1, I_1	2 : 2
G5	0	1	0	-8641	-311905	0	4	+	18, 8, 2	0, 8, 2	4, 8, 2	I_8^*, I_8, I_2	2 : 3, 7, 8
G6	0	1	0	2239	-20961	0	2	-	18, 2, 8	0, 2, 8	4, 2, 2	I_8^*, I_2, I_8	2 : 3
G7	0	1	0	-138241	-19829665	0	2	+	18, 4, 1	0, 4, 1	2, 4, 1	I_8^*, I_4, I_1	2 : 5
G8	0	1	0	-7041	-429345	0	2	-	18, 16, 1	0, 16, 1	2, 16, 1	I_8^*, I_{16}, I_1	2 : 5
H1	0	1	0	-900	10098	1	2	+	6, 3, 2	0, 3, 2	1, 3, 2	Π, I_3, I_2	2 : 2
H2	0	1	0	-905	9975	1	4	+	12, 6, 4	0, 6, 4	4, 6, 4	I_2^*, I_6, I_4	2 : 1, 3, 4
H3	0	1	0	-1985	-19617	1	2	+	15, 3, 8	0, 3, 8	4, 3, 8	I_5^*, I_3, I_8	2 : 2
H4	0	1	0	95	31775	1	4	-	15, 12, 2	0, 12, 2	4, 12, 2	I_5^*, I_{12}, I_2	2 : 2
I1	0	-1	0	-1	-95	0	2	-	18, 1, 1	0, 1, 1	4, 1, 1	I_8^*, I_1, I_1	2 : 2
I2	0	-1	0	-321	-2079	0	4	+	18, 2, 2	0, 2, 2	4, 2, 2	I_8^*, I_2, I_2	2 : 1, 3, 4
I3	0	-1	0	-5121	-139359	0	2	+	18, 1, 1	0, 1, 1	2, 1, 1	I_8^*, I_1, I_1	2 : 2
I4	0	-1	0	-641	3105	0	4	+	18, 4, 4	0, 4, 4	4, 2, 2	I_8^*, I_4, I_4	2 : 2, 5, 6
I5	0	-1	0	-8641	311905	0	4	+	18, 8, 2	0, 8, 2	4, 2, 2	I_8^*, I_8, I_2	2 : 4, 7, 8
I6	0	-1	0	2239	20961	0	2	-	18, 2, 8	0, 2, 8	2, 2, 2	I_8^*, I_2, I_8	2 : 4
I7	0	-1	0	-138241	19829665	0	2	+	18, 4, 1	0, 4, 1	2, 2, 1	I_8^*, I_4, I_1	2 : 5
I8	0	-1	0	-7041	429345	0	2	-	18, 16, 1	0, 16, 1	4, 2, 1	I_8^*, I_{16}, I_1	2 : 5
J1	0	-1	0	4	-30	0	2	-	6, 2, 4	0, 2, 4	1, 2, 2	Π, I_2, I_4	2 : 2
J2	0	-1	0	-121	-455	0	4	+	12, 4, 2	0, 4, 2	4, 2, 2	I_2^*, I_4, I_2	2 : 1, 3, 4
J3	0	-1	0	-1921	-31775	0	2	+	15, 2, 1	0, 2, 1	4, 2, 1	I_5^*, I_2, I_1	2 : 2
J4	0	-1	0	-321	1665	0	2	+	15, 8, 1	0, 8, 1	2, 2, 1	I_5^*, I_8, I_1	2 : 2
K1	0	-1	0	-20	42	1	2	+	6, 1, 1	0, 1, 1	1, 1, 1	Π, I_1, I_1	2 : 2
K2	0	-1	0	-25	25	1	4	+	12, 2, 2	0, 2, 2	4, 2, 2	I_2^*, I_2, I_2	2 : 1, 3, 4
K3	0	-1	0	-225	-1215	1	2	+	15, 4, 1	0, 4, 1	2, 2, 1	I_5^*, I_4, I_1	2 : 2
K4	0	-1	0	95	97	1	4	-	15, 1, 4	0, 1, 4	4, 1, 4	I_5^*, I_1, I_4	2 : 2
L1	0	1	0	-61	-205	1	2	+	10, 2, 1	0, 2, 1	2, 2, 1	I_0^*, I_2, I_1	2 : 2
L2	0	1	0	-81	-81	1	4	+	14, 4, 2	0, 4, 2	4, 4, 2	I_4^*, I_4, I_2	2 : 1, 3, 4
L3	0	1	0	-801	8415	1	4	+	16, 2, 4	0, 2, 4	4, 2, 2	I_6^*, I_2, I_4	2 : 2, 5, 6
L4	0	1	0	319	-321	1	2	-	16, 8, 1	0, 8, 1	4, 8, 1	I_6^*, I_8, I_1	2 : 2
L5	0	1	0	-12801	553215	1	2	+	17, 1, 2	0, 1, 2	4, 1, 2	I_7^*, I_1, I_2	2 : 3
L6	0	1	0	-321	18879	1	2	-	17, 1, 8	0, 1, 8	2, 1, 2	I_7^*, I_1, I_8	2 : 3
M1	0	1	0	4	30	1	2	-	6, 2, 4	0, 2, 4	1, 2, 2	Π, I_2, I_4	2 : 2
M2	0	1	0	-121	455	1	4	+	12, 4, 2	0, 4, 2	4, 4, 2	I_2^*, I_4, I_2	2 : 1, 3, 4
M3	0	1	0	-321	-1665	1	2	+	15, 8, 1	0, 8, 1	4, 8, 1	I_5^*, I_8, I_1	2 : 2
M4	0	1	0	-1921	31775	1	2	+	15, 2, 1	0, 2, 1	2, 2, 1	I_5^*, I_2, I_1	2 : 2
N1	0	1	0	-20	-42	0	2	+	6, 1, 1	0, 1, 1	1, 1, 1	Π, I_1, I_1	2 : 2
N2	0	1	0	-25	-25	0	4	+	12, 2, 2	0, 2, 2	4, 2, 2	I_2^*, I_2, I_2	2 : 1, 3, 4
N3	0	1	0	-225	1215	0	4	+	15, 4, 1	0, 4, 1	4, 4, 1	I_5^*, I_4, I_1	2 : 2

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
960	$N = 960 = 2^6 \cdot 3 \cdot 5$ (continued)												960
O1	0	1	0	95	-1057	0	2	-	22, 3, 1	4, 3, 1	4, 3, 1	I_{12}^*, I_3, I_1	2 : 2; 3 : 3
O2	0	1	0	-1185	-14625	0	4	+	20, 6, 2	2, 6, 2	4, 6, 2	I_{10}^*, I_6, I_2	2 : 1, 4, 5; 3 : 6
O3	0	1	0	-865	31775	0	2	-	30, 1, 3	12, 1, 3	4, 1, 3	I_{20}^*, I_1, I_3	2 : 6; 3 : 1
O4	0	1	0	-18465	-971937	0	2	+	19, 3, 4	1, 3, 4	2, 3, 4	I_9^*, I_3, I_4	2 : 2; 3 : 7
O5	0	1	0	-4385	94815	0	4	+	19, 12, 1	1, 12, 1	4, 12, 1	I_9^*, I_{12}, I_1	2 : 2; 3 : 8
O6	0	1	0	-21345	1190943	0	4	+	24, 2, 6	6, 2, 6	4, 2, 6	I_{14}^*, I_2, I_6	2 : 3, 7, 8; 3 : 2
O7	0	1	0	-29025	249375	0	2	+	21, 1, 12	3, 1, 12	2, 1, 12	I_{11}^*, I_1, I_{12}	2 : 6; 3 : 4
O8	0	1	0	-341345	76646943	0	4	+	21, 4, 3	3, 4, 3	4, 4, 3	I_{11}^*, I_4, I_3	2 : 6; 3 : 5
P1	0	1	0	15	15	0	2	-	14, 1, 1	0, 1, 1	4, 1, 1	I_4^*, I_1, I_1	2 : 2
P2	0	1	0	-65	63	0	4	+	16, 2, 2	0, 2, 2	4, 2, 2	I_6^*, I_2, I_2	2 : 1, 3, 4
P3	0	1	0	-545	-5025	0	2	+	17, 1, 4	0, 1, 4	2, 1, 4	I_7^*, I_1, I_4	2 : 2
P4	0	1	0	-865	9503	0	4	+	17, 4, 1	0, 4, 1	4, 4, 1	I_7^*, I_4, I_1	2 : 2
962	$N = 962 = 2 \cdot 13 \cdot 37$ (1 isogeny class)												962
A1	1	-1	1	-9	-7	0	2	+	4, 1, 1	4, 1, 1	4, 1, 1	I_4, I_1, I_1	2 : 2
A2	1	-1	1	11	-47	0	2	-	2, 2, 2	2, 2, 2	2, 2, 2	I_2, I_2, I_2	2 : 1
964	$N = 964 = 2^2 \cdot 241$ (1 isogeny class)												964
A1	0	1	0	-20	-44	0	1	-	8, 1	0, 1	1, 1	IV^*, I_1	
965	$N = 965 = 5 \cdot 193$ (1 isogeny class)												965
A1	1	-1	0	-100	411	0	2	+	2, 1	2, 1	2, 1	I_2, I_1	2 : 2
A2	1	-1	0	-95	450	0	2	-	4, 2	4, 2	2, 2	I_4, I_2	2 : 1
966	$N = 966 = 2 \cdot 3 \cdot 7 \cdot 23$ (11 isogeny classes)												966
A1	1	1	0	334	5556	1	2	-	10, 4, 3, 2	10, 4, 3, 2	2, 2, 1, 2	I_{10}, I_4, I_3, I_2	2 : 2
A2	1	1	0	-3346	63700	1	2	+	5, 8, 6, 1	5, 8, 6, 1	1, 2, 2, 1	I_5, I_8, I_6, I_1	2 : 1
B1	1	1	0	-5131	-144323	0	1	-	13, 3, 5, 1	13, 3, 5, 1	1, 1, 5, 1	I_{13}, I_3, I_5, I_1	
C1	1	1	0	-14744	836928	1	2	-	22, 8, 1, 2	22, 8, 1, 2	2, 2, 1, 2	I_{22}, I_8, I_1, I_2	2 : 2
C2	1	1	0	-250264	48082240	1	2	+	11, 16, 2, 1	11, 16, 2, 1	1, 2, 2, 1	I_{11}, I_{16}, I_2, I_1	2 : 1
D1	1	1	0	18	0	1	2	-	2, 4, 2, 1	2, 4, 2, 1	2, 2, 2, 1	I_2, I_4, I_2, I_1	2 : 2
D2	1	1	0	-72	-90	1	2	+	1, 2, 4, 2	1, 2, 4, 2	1, 2, 4, 2	I_1, I_2, I_4, I_2	2 : 1
E1	1	0	1	-1	116	1	2	-	6, 4, 2, 1	6, 4, 2, 1	2, 4, 2, 1	I_6, I_4, I_2, I_1	2 : 2
E2	1	0	1	-361	2564	1	2	+	3, 2, 4, 2	3, 2, 4, 2	1, 2, 2, 2	I_3, I_2, I_4, I_2	2 : 1
F1	1	0	1	4644	858394	0	6	-	10, 12, 2, 3	10, 12, 2, 3	2, 12, 2, 3	I_{10}, I_{12}, I_2, I_3	2 : 2; 3 : 3
F2	1	0	1	-111996	13735450	0	6	+	5, 6, 4, 6	5, 6, 4, 6	1, 6, 4, 6	I_5, I_6, I_4, I_6	2 : 1; 3 : 4
F3	1	0	1	-41931	-23576714	0	2	-	30, 4, 6, 1	30, 4, 6, 1	2, 4, 6, 1	I_{30}, I_4, I_6, I_1	2 : 4; 3 : 1
F4	1	0	1	-1516491	-715440266	0	2	+	15, 2, 12, 2	15, 2, 12, 2	1, 2, 12, 2	I_{15}, I_2, I_{12}, I_2	2 : 3; 3 : 2
G1	1	1	1	126	1167	1	4	-	16, 2, 2, 1	16, 2, 2, 1	16, 2, 2, 1	I_{16}, I_2, I_2, I_1	2 : 2
G2	1	1	1	-1154	12431	1	8	+	8, 4, 4, 2	8, 4, 4, 2	8, 2, 4, 2	I_8, I_4, I_4, I_2	2 : 1, 3, 4
G3	1	1	1	-5074	-128689	1	4	+	4, 8, 2, 4	4, 8, 2, 4	4, 2, 2, 2	I_4, I_8, I_2, I_4	2 : 2, 5, 6
G4	1	1	1	-17714	900047	1	8	+	4, 2, 8, 1	4, 2, 8, 1	4, 2, 8, 1	I_4, I_2, I_8, I_1	2 : 2
G5	1	1	1	-79134	-8601153	1	2	+	2, 16, 1, 2	2, 16, 1, 2	2, 2, 1, 2	I_2, I_{16}, I_1, I_2	2 : 3
G6	1	1	1	6266	-609505	1	2	-	2, 4, 1, 8	2, 4, 1, 8	2, 2, 1, 2	I_2, I_4, I_1, I_8	2 : 3

TABLE 1: ELLIPTIC CURVES 966I–974D

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
966	$N = 966 = 2 \cdot 3 \cdot 7 \cdot 23$ (continued)												966
I1	1	0	0	−599	−9255	0	4	−	4, 6, 1, 4	4, 6, 1, 4	4, 6, 1, 4	I_4, I_6, I_1, I_4	2 : 2
I2	1	0	0	−11179	−455731	0	4	+	2, 12, 2, 2	2, 12, 2, 2	2, 12, 2, 2	I_2, I_{12}, I_2, I_2	2 : 1, 3, 4
I3	1	0	0	−178849	−29127301	0	2	+	1, 6, 4, 1	1, 6, 4, 1	1, 6, 2, 1	I_1, I_6, I_4, I_1	2 : 2
I4	1	0	0	−12789	−316305	0	2	+	1, 24, 1, 1	1, 24, 1, 1	1, 24, 1, 1	I_1, I_{24}, I_1, I_1	2 : 2
J1	1	0	0	9096	224832	0	1	−	9, 1, 11, 1	9, 1, 11, 1	9, 1, 1, 1	I_9, I_1, I_{11}, I_1	
K1	1	0	0	3	9	0	3	−	3, 3, 1, 1	3, 3, 1, 1	3, 3, 1, 1	I_3, I_3, I_1, I_1	3 : 2
K2	1	0	0	−27	−249	0	1	−	1, 1, 3, 3	1, 1, 3, 3	1, 1, 3, 1	I_1, I_1, I_3, I_3	3 : 1
968	$N = 968 = 2^3 \cdot 11^2$ (5 isogeny classes)												968
A1	0	1	0	15	−13	1	1	−	8, 3	0, 0	4, 2	I_1^*, III	
B1	0	0	0	−1331	−29282	0	1	−	10, 8	0, 0	2, 3	$\text{III}^*, \text{IV}^*$	
C1	0	1	0	1775	24451	0	1	−	8, 9	0, 0	2, 2	I_1^*, III^*	
D1	0	0	0	−11	22	1	1	−	10, 2	0, 0	2, 1	III^*, II	
E1	0	0	0	−484	−5324	1	1	−	8, 7	0, 1	2, 4	I_1^*, I_1^*	
969	$N = 969 = 3 \cdot 17 \cdot 19$ (1 isogeny class)												969
A1	1	0	1	−10	−1	0	2	+	2, 1, 2	2, 1, 2	2, 1, 2	I_2, I_1, I_2	2 : 2
A2	1	0	1	−105	−419	0	2	+	4, 2, 1	4, 2, 1	4, 2, 1	I_4, I_2, I_1	2 : 1
970	$N = 970 = 2 \cdot 5 \cdot 97$ (2 isogeny classes)												970
A1	1	0	1	−21444	1420226	0	1	−	11, 13, 1	11, 13, 1	1, 1, 1	I_{11}, I_{13}, I_1	
B1	1	0	0	−5	−5	0	1	−	1, 1, 1	1, 1, 1	1, 1, 1	I_1, I_1, I_1	
972	$N = 972 = 2^2 \cdot 3^5$ (4 isogeny classes)												972
A1	0	0	0	0	−12	0	1	−	8, 5	0, 0	1, 1	IV^*, II	3 : 2
A2	0	0	0	0	324	0	3	−	8, 11	0, 0	3, 3	IV^*, IV^*	3 : 1
B1	0	0	0	0	−3	0	1	−	4, 5	0, 0	1, 1	IV, II	3 : 2
B2	0	0	0	0	81	0	3	−	4, 11	0, 0	3, 3	IV, IV^*	3 : 1
C1	0	0	0	0	9	1	3	−	4, 7	0, 0	3, 3	IV, IV	3 : 2
C2	0	0	0	0	−243	1	1	−	4, 13	0, 0	1, 1	IV, II^*	3 : 1
D1	0	0	0	0	36	1	3	−	8, 7	0, 0	3, 3	IV^*, IV	3 : 2
D2	0	0	0	0	−972	1	1	−	8, 13	0, 0	1, 1	IV^*, II^*	3 : 1
973	$N = 973 = 7 \cdot 139$ (2 isogeny classes)												973
A1	0	1	1	−26	43	0	1	+	1, 1	1, 1	1, 1	I_1, I_1	
B1	0	1	1	−203	1048	1	3	+	1, 1	1, 1	1, 1	I_1, I_1	3 : 2
B2	0	1	1	−253	441	1	3	+	3, 3	3, 3	3, 3	I_3, I_3	3 : 1, 3
B3	0	1	1	−11373	−470630	1	1	+	9, 1	9, 1	9, 1	I_9, I_1	3 : 2
974	$N = 974 = 2 \cdot 487$ (8 isogeny classes)												974
A1	1	−1	0	−13	−27	0	1	−	9, 1	9, 1	1, 1	I_9, I_1	
B1	1	1	0	−9421	−355915	0	1	−	3, 1	3, 1	1, 1	I_3, I_1	
C1	1	1	0	8	0	0	2	−	6, 1	6, 1	2, 1	I_6, I_1	2 : 2
C2	1	1	0	−32	−40	0	2	+	3, 2	3, 2	1, 2	I_3, I_2	2 : 1

TABLE 1: ELLIPTIC CURVES 974E–978H

974	a_1	a_2	a_3	a_4	$N = 974 = 2 \cdot 487$	g	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}(j)$	c_p	Kodaira	Isogenies	974
E1	1	1	1	-5	3	1	1	-	3, 1	3, 1	3, 1	3, 1	I_3, I_1		
F1	1	1	1	-91	297	1	1	-	9, 1	9, 1	9, 1	9, 1	I_9, I_1		
G1	1	-1	1	3	-3	1	1	-	3, 1	3, 1	3, 1	3, 1	I_3, I_1		
H1	1	-1	1	51	117	1	1	-	15, 1	15, 1	15, 1	15, 1	I_{15}, I_1		975
$N = 975 = 3 \cdot 5^2 \cdot 13$ (11 isogeny classes)															
A1	1	1	0	-2750	54375	1	2	+	4, 7, 1	4, 1, 1	2, 2, 1	I_4, I_1^*, I_1	I_4, I_1^*, I_1	$2 : 2$	
A2	1	1	0	-2875	49000	1	4	+	8, 8, 2	8, 2, 2	2, 4, 2	I_8, I_2^*, I_2	I_8, I_2^*, I_2	$2 : 1, 3, 4$	
A3	1	1	0	-13000	-528125	1	4	+	4, 10, 4	4, 4, 4	2, 4, 2	I_4, I_4^*, I_4	I_4, I_4^*, I_4	$2 : 2, 5, 6$	
A4	1	1	0	5250	284625	1	2	-	16, 7, 1	16, 1, 1	2, 2, 1	I_{16}, I_1^*, I_1	I_{16}, I_1^*, I_1	$2 : 2$	
A5	1	1	0	-203125	-35321000	1	4	+	2, 14, 2	2, 8, 2	2, 4, 2	I_2, I_8^*, I_2	I_2, I_8^*, I_2	$2 : 3, 7, 8$	
A6	1	1	0	15125	-2468750	1	2	-	2, 8, 8	2, 2, 8	2, 4, 2	I_2, I_2^*, I_8	I_2, I_2^*, I_8	$2 : 3$	
A7	1	1	0	-3250000	-2256492875	1	2	+	1, 10, 1	1, 4, 1	1, 4, 1	I_1, I_4^*, I_1	I_1, I_4^*, I_1	$2 : 5$	
A8	1	1	0	-198250	-37090625	1	2	-	1, 22, 1	1, 16, 1	1, 4, 1	I_1, I_{16}^*, I_1	I_1, I_{16}^*, I_1	$2 : 5$	
B1	0	-1	1	-8	-82	1	1	-	1, 7, 1	1, 1, 1	1, 4, 1	I_1, I_1^*, I_1	I_1, I_1^*, I_1		
C1	1	1	0	300	14625	0	1	-	6, 10, 1	6, 0, 1	2, 1, 1	I_6, I_1^*, I_1	I_6, I_1^*, I_1		
D1	0	-1	1	-1658	-40282	0	1	-	3, 13, 1	3, 7, 1	1, 2, 1	I_3, I_7^*, I_1	I_3, I_7^*, I_1		
E1	1	1	1	-1138	-15844	0	1	-	2, 8, 3	2, 0, 3	2, 1, 1	I_2, I_4^*, I_3	I_2, I_4^*, I_3		
F1	0	-1	1	-83	3818	1	1	-	5, 9, 1	5, 0, 1	1, 2, 1	I_5, I_1^*, I_1	I_5, I_1^*, I_1		
G1	1	0	0	12	-33	0	2	-	1, 6, 1	1, 0, 1	1, 4, 1	I_1, I_0^*, I_1	I_1, I_0^*, I_1	$2 : 2$	
G2	1	0	0	-113	-408	0	4	+	2, 6, 2	2, 0, 2	2, 4, 2	I_2, I_0^*, I_2	I_2, I_0^*, I_2	$2 : 1, 3, 4$	
G3	1	0	0	-1738	-28033	0	2	+	4, 6, 1	4, 0, 1	4, 2, 1	I_4, I_0^*, I_1	I_4, I_0^*, I_1	$2 : 2$	
G4	1	0	0	-488	3717	0	2	+	1, 6, 4	1, 0, 4	1, 2, 2	I_1, I_0^*, I_4	I_1, I_0^*, I_4	$2 : 2$	
H1	1	0	1	-46	-127	1	1	-	2, 2, 3	2, 0, 3	2, 1, 3	I_2, I_1, I_3	I_2, I_1, I_3		
I1	0	1	1	-4758	128144	1	1	-	7, 7, 3	7, 1, 3	7, 4, 3	I_7, I_1^*, I_3	I_7, I_1^*, I_3		
J1	0	1	1	-3	29	1	1	-	5, 3, 1	5, 0, 1	5, 2, 1	I_5, I_1, I_1	I_5, I_1, I_1		
K1	1	0	0	12	117	1	1	-	6, 4, 1	6, 0, 1	6, 3, 1	I_6, I_4^*, I_1	I_6, I_4^*, I_1		976
$N = 976 = 2^4 \cdot 61$ (3 isogeny classes)															
A1	0	-1	0	40	-16	0	1	-	16, 1	4, 1	2, 1	I_8^*, I_1	I_8^*, I_1		
B1	0	-1	0	-32	-64	0	1	-	12, 1	0, 1	2, 1	I_4^*, I_1	I_4^*, I_1		
C1	0	0	0	1	-6	1	1	-	8, 1	0, 1	1, 1	I_0^*, I_1	I_0^*, I_1		
$N = 978 = 2 \cdot 3 \cdot 163$ (8 isogeny classes)															
A1	1	1	0	-37670	2798484	0	1	-	19, 5, 1	19, 5, 1	1, 1, 1	I_{19}, I_5, I_1	I_{19}, I_5, I_1		
B1	1	1	0	-9	-15	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	I_2, I_1, I_1	$2 : 2$	
B2	1	1	0	1	-33	0	2	-	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	I_1, I_2, I_2	$2 : 1$	
C1	1	1	0	-2188119	-1243572651	0	1	+	13, 26, 1	13, 26, 1	1, 2, 1	I_{13}, I_{26}, I_1	I_{13}, I_{26}, I_1		
D1	1	1	0	458	-2060	0	1	-	5, 13, 1	5, 13, 1	1, 1, 1	I_5, I_{13}, I_1	I_5, I_{13}, I_1		
E1	1	0	1	-5	2	1	1	+	1, 2, 1	1, 2, 1	1, 2, 1	I_1, I_2, I_1	I_1, I_2, I_1		
F1	1	1	1	-121	455	1	1	+	11, 2, 1	11, 2, 1	11, 2, 1	I_{11}, I_2, I_1	I_{11}, I_2, I_1		
G1	1	0	0	-132	144	1	1	+	7, 8, 1	7, 8, 1	7, 8, 1	I_7, I_8, I_1	I_7, I_8, I_1		
H1	1	0	0	-3	9	0	3	-	3, 3, 1	3, 3, 1	3, 3, 1	I_3, I_3, I_1	I_3, I_3, I_1	$3 : 2$	

TABLE 1: ELLIPTIC CURVES 979A–986D

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies	
979	$N = 979 = 11 \cdot 89$ (2 isogeny classes)													979
A1	0	-1	1	1	-2	0	1	-	1, 1	1, 1	1, 1	I_1, I_1		
B1	1	1	0	-14646	-688345	1	2	+	4, 3	4, 3	4, 3	I_4, I_3	2 : 2	
B2	1	1	0	-14041	-747030	1	2	-	2, 6	2, 6	2, 6	I_2, I_6	2 : 1	
980	$N = 980 = 2^2 \cdot 5 \cdot 7^2$ (9 isogeny classes)													980
A1	0	1	0	-996	11780	0	3	-	8, 3, 4	0, 3, 0	3, 1, 3	IV^*, I_3, IV	3 : 2	
A2	0	1	0	964	51764	0	1	-	8, 9, 4	0, 9, 0	1, 1, 3	IV^*, I_9, IV	3 : 1	
B1	0	0	0	-343	-4802	0	1	-	8, 1, 8	0, 1, 0	1, 1, 1	IV^*, I_1, IV^*		
C1	0	1	0	19	-1	1	1	-	8, 1, 3	0, 1, 0	1, 1, 2	IV^*, I_1, III		
D1	0	-1	0	-261	8065	1	1	-	8, 3, 7	0, 3, 1	3, 1, 4	IV^*, I_3, I_1^*	3 : 2	
D2	0	-1	0	-39461	3030385	1	1	-	8, 1, 9	0, 1, 3	1, 1, 4	IV^*, I_1, I_3^*	3 : 1	
E1	0	-1	0	915	2185	0	1	-	8, 1, 9	0, 1, 0	1, 1, 2	IV^*, I_1, III^*		
F1	0	-1	0	-48820	-4138168	0	1	-	8, 3, 10	0, 3, 0	3, 3, 1	IV^*, I_3, II^*	3 : 2	
F2	0	-1	0	47220	-17660600	0	1	-	8, 9, 10	0, 9, 0	1, 9, 1	IV^*, I_9, II^*	3 : 1	
G1	0	-1	0	-65	-118	0	2	+	4, 1, 6	0, 1, 0	3, 1, 2	IV, I_1, I_0^*	2 : 2; 3 : 3	
G2	0	-1	0	180	-1000	0	2	-	8, 2, 6	0, 2, 0	3, 2, 2	IV^*, I_2, I_0^*	2 : 1; 3 : 4	
G3	0	-1	0	-2025	35750	0	2	+	4, 3, 6	0, 3, 0	1, 3, 2	IV, I_3, I_0^*	2 : 4; 3 : 1	
G4	0	-1	0	-1780	44472	0	2	-	8, 6, 6	0, 6, 0	1, 6, 2	IV^*, I_6, I_0^*	2 : 3; 3 : 2	
H1	0	0	0	-7	14	0	1	-	8, 1, 2	0, 1, 0	1, 1, 1	IV^*, I_1, II		
I1	0	0	0	1568	-72716	0	1	-	8, 1, 11	0, 1, 5	1, 1, 2	IV^*, I_1, I_5^*		
981	$N = 981 = 3^2 \cdot 109$ (2 isogeny classes)													981
A1	1	-1	0	36	81	1	1	-	10, 1	4, 1	2, 1	I_4^*, I_1		
B1	1	-1	1	-74	262	1	1	-	6, 1	0, 1	2, 1	I_0^*, I_1		
982	$N = 982 = 2 \cdot 491$ (1 isogeny class)													982
A1	1	0	1	-22	40	1	1	-	8, 1	8, 1	2, 1	I_8, I_1		
984	$N = 984 = 2^3 \cdot 3 \cdot 41$ (4 isogeny classes)													984
A1	0	-1	0	184	1644	0	1	-	11, 9, 1	0, 9, 1	1, 1, 1	II^*, I_9, I_1		
B1	0	-1	0	-577	-5147	0	1	-	8, 3, 1	0, 3, 1	4, 1, 1	I_1^*, I_3, I_1		
C1	0	-1	0	-369	4293	1	1	-	8, 5, 3	0, 5, 3	2, 1, 3	I_1^*, I_5, I_3		
D1	0	1	0	7	27	1	1	-	8, 3, 1	0, 3, 1	2, 3, 1	I_1^*, I_3, I_1		
985	$N = 985 = 5 \cdot 197$ (2 isogeny classes)													985
A1	1	-1	0	-89	-302	0	1	-	3, 1	3, 1	3, 1	I_3, I_1		
B1	0	1	1	-20	24	1	1	+	4, 1	4, 1	4, 1	I_4, I_1		
986	$N = 986 = 2 \cdot 17 \cdot 29$ (6 isogeny classes)													986
A1	1	0	1	9	-34	0	3	-	2, 3, 1	2, 3, 1	2, 3, 1	I_2, I_3, I_1	3 : 2	
A2	1	0	1	-586	-5508	0	1	-	6, 1, 3	6, 1, 3	2, 1, 1	I_6, I_1, I_3	3 : 1	
B1	1	1	0	-10407	-413003	1	1	-	12, 2, 1	12, 2, 1	2, 2, 1	I_{12}, I_2, I_1		
C1	1	1	0	-276	1616	1	2	+	12, 1, 2	12, 1, 2	2, 1, 2	I_{12}, I_1, I_2	2 : 2	
C2	1	1	0	44	5520	1	2	-	6, 2, 4	6, 2, 4	2, 2, 4	I_6, I_2, I_4	2 : 1	

TABLE 1: ELLIPTIC CURVES 986E–990E

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
986	$N = 986 = 2 \cdot 17 \cdot 29$ (continued)												986
E1	1	0	0	3467	-83679	1	1	-	14, 1, 5	14, 1, 5	14, 1, 5	I_{14}, I_1, I_5	
F1	1	-1	1	-1	17	1	1	-	8, 1, 1	8, 1, 1	8, 1, 1	I_8, I_1, I_1	
987	$N = 987 = 3 \cdot 7 \cdot 47$ (5 isogeny classes)												987
A1	1	1	0	7	0	0	2	-	2, 2, 1	2, 2, 1	2, 2, 1	I_2, I_2, I_1	2 : 2
A2	1	1	0	-28	-35	0	2	+	4, 1, 2	4, 1, 2	2, 1, 2	I_4, I_1, I_2	2 : 1
B1	1	1	1	-62	-214	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
B2	1	1	1	-67	-184	0	4	+	4, 2, 2	4, 2, 2	2, 2, 2	I_4, I_2, I_2	2 : 1, 3, 4
B3	1	1	1	-382	2588	0	4	+	2, 1, 4	2, 1, 4	2, 1, 4	I_2, I_1, I_4	2 : 2
B4	1	1	1	168	-936	0	2	-	8, 4, 1	8, 4, 1	2, 2, 1	I_8, I_4, I_1	2 : 2
C1	0	-1	1	-208	1227	0	1	-	3, 3, 1	3, 3, 1	1, 1, 1	I_3, I_3, I_1	
D1	0	1	1	-2066	100013	0	1	-	7, 5, 3	7, 5, 3	7, 1, 1	I_7, I_5, I_3	
E1	1	0	0	1596	9783	1	2	-	10, 2, 3	10, 2, 3	10, 2, 3	I_{10}, I_2, I_3	2 : 2
E2	1	0	0	-6909	79524	1	2	+	5, 1, 6	5, 1, 6	5, 1, 6	I_5, I_1, I_6	2 : 1
988	$N = 988 = 2^2 \cdot 13 \cdot 19$ (4 isogeny classes)												988
A1	0	-1	0	114	-247	0	1	-	4, 5, 1	0, 5, 1	3, 1, 1	IV, I_5, I_1	
B1	0	0	0	-362249	165197113	1	1	-	4, 1, 13	0, 1, 13	3, 1, 13	IV, I_1, I_{13}	
C1	0	0	0	16	36	1	1	-	8, 2, 1	0, 2, 1	3, 2, 1	IV^*, I_2, I_1	
D1	0	1	0	-18	-71	0	3	-	4, 1, 3	0, 1, 3	3, 1, 3	IV, I_1, I_3	3 : 2
D2	0	1	0	-1918	-32979	0	1	-	4, 3, 1	0, 3, 1	1, 3, 1	IV, I_3, I_1	3 : 1
989	$N = 989 = 23 \cdot 43$ (1 isogeny class)												989
A1	1	-1	0	-241	1502	0	1	-	1, 1	1, 1	1, 1	I_1, I_1	
990	$N = 990 = 2 \cdot 3^2 \cdot 5 \cdot 11$ (12 isogeny classes)												990
A1	1	-1	0	-15	25	1	2	+	2, 3, 2, 1	2, 0, 2, 1	2, 2, 2, 1	I_2, III, I_2, I_1	2 : 2
A2	1	-1	0	15	91	1	2	-	1, 3, 4, 2	1, 0, 4, 2	1, 2, 2, 2	I_1, III, I_4, I_2	2 : 1
B1	1	-1	0	-10734	430740	0	6	+	6, 3, 6, 1	6, 0, 6, 1	2, 2, 6, 1	I_6, III, I_6, I_1	2 : 2; 3 : 3
B2	1	-1	0	-10614	440748	0	6	-	3, 3, 12, 2	3, 0, 12, 2	1, 2, 12, 2	I_3, III, I_{12}, I_2	2 : 1; 3 : 4
B3	1	-1	0	-14109	140165	0	2	+	18, 9, 2, 3	18, 0, 2, 3	2, 2, 2, 1	I_{18}, III^*, I_2, I_3	2 : 4; 3 : 1
B4	1	-1	0	55011	1066373	0	2	-	9, 9, 4, 6	9, 0, 4, 6	1, 2, 4, 2	I_9, III^*, I_4, I_6	2 : 3; 3 : 2
C1	1	-1	0	2295	-4595	0	2	-	16, 9, 1, 2	16, 3, 1, 2	2, 2, 1, 2	I_{16}, I_3^*, I_1, I_2	2 : 2
C2	1	-1	0	-9225	-29939	0	4	+	8, 12, 2, 4	8, 6, 2, 4	2, 4, 2, 2	I_8, I_6^*, I_2, I_4	2 : 1, 3, 4
C3	1	-1	0	-106425	-13307459	0	2	+	4, 9, 1, 8	4, 3, 1, 8	2, 4, 1, 2	I_4, I_3^*, I_1, I_8	2 : 2
C4	1	-1	0	-96345	11487325	0	4	+	4, 18, 4, 2	4, 12, 4, 2	2, 4, 2, 2	I_4, I_{12}^*, I_4, I_2	2 : 2, 5, 6
C5	1	-1	0	-1539765	735795481	0	2	+	2, 12, 8, 1	2, 6, 8, 1	2, 2, 2, 1	I_2, I_6^*, I_8, I_1	2 : 4
C6	1	-1	0	-46845	23238625	0	2	-	2, 30, 2, 1	2, 24, 2, 1	2, 4, 2, 1	I_2, I_{24}^*, I_2, I_1	2 : 4
D1	1	-1	0	90	1300	0	1	-	5, 6, 5, 1	5, 0, 5, 1	1, 1, 1, 1	I_5, I_0^*, I_5, I_1	5 : 2
D2	1	-1	0	-53460	4771030	0	1	-	1, 6, 1, 5	1, 0, 1, 5	1, 1, 1, 1	I_1, I_0^*, I_1, I_5	5 : 1
E1	1	-1	0	45	-459	1	2	-	8, 8, 1, 1	8, 2, 1, 1	2, 2, 1, 1	I_8, I_2^*, I_1, I_1	2 : 2
E2	1	-1	0	-675	-6075	1	4	+	4, 10, 2, 2	4, 4, 2, 2	2, 4, 2, 2	I_4, I_4^*, I_2, I_2	2 : 1, 3, 4
E3	1	-1	0	-10575	-415935	1	2	+	2, 14, 1, 1	2, 8, 1, 1	2, 4, 1, 1	I_2, I_8^*, I_1, I_1	2 : 2
E4	1	-1	0	-2295	35721	1	4	+	2, 8, 4, 4	2, 2, 4, 4	2, 4, 2, 4	I_2, I_2^*, I_4, I_4	2 : 2, 5, 6
E5	1	-1	0	-34965	2525175	1	2	+	1, 7, 8, 2	1, 1, 8, 2	1, 2, 2, 2	I_1, I_8^*, I_8, I_2	2 : 4

TABLE 1: ELLIPTIC CURVES 990F–995A

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
990	$N = 990 = 2 \cdot 3^2 \cdot 5 \cdot 11$ (continued)												990
F1	1	-1	0	-9	-27	0	1	-	3, 6, 1, 1	3, 0, 1, 1	1, 1, 1, 1	I_3, I_0^*, I_1, I_1	3 : 2
F2	1	-1	0	81	675	0	3	-	1, 6, 3, 3	1, 0, 3, 3	1, 1, 3, 3	I_1, I_0^*, I_3, I_3	3 : 1
G1	1	-1	0	-362394	-79244492	0	2	+	28, 11, 4, 1	28, 5, 4, 1	2, 4, 4, 1	I_{28}, I_5^*, I_4, I_1	2 : 2
G2	1	-1	0	-1099674	346460980	0	4	+	14, 16, 8, 2	14, 10, 8, 2	2, 4, 8, 2	$I_{14}, I_{10}^*, I_8, I_2$	2 : 1, 3, 4
G3	1	-1	0	-16496154	25790683828	0	2	+	7, 11, 16, 1	7, 5, 16, 1	1, 2, 16, 1	I_7, I_5^*, I_{16}, I_1	2 : 2
G4	1	-1	0	2500326	2138540980	0	2	-	7, 26, 4, 4	7, 20, 4, 4	1, 4, 4, 4	I_7, I_{20}^*, I_4, I_4	2 : 2
H1	1	-1	1	-96608	-11533373	1	2	+	6, 9, 6, 1	6, 0, 6, 1	6, 2, 2, 1	I_6, III^*, I_6, I_1	2 : 2; 3 : 3
H2	1	-1	1	-95528	-11804669	1	2	-	3, 9, 12, 2	3, 0, 12, 2	3, 2, 2, 2	I_3, III^*, I_{12}, I_2	2 : 1; 3 : 4
H3	1	-1	1	-1568	-4669	1	6	+	18, 3, 2, 3	18, 0, 2, 3	18, 2, 2, 3	I_{18}, III, I_2, I_3	2 : 4; 3 : 1
H4	1	-1	1	6112	-41533	1	6	-	9, 3, 4, 6	9, 0, 4, 6	9, 2, 2, 6	I_9, III, I_4, I_6	2 : 3; 3 : 2
I1	1	-1	1	-137	-539	0	2	+	2, 9, 2, 1	2, 0, 2, 1	2, 2, 2, 1	I_2, III^*, I_2, I_1	2 : 2
I2	1	-1	1	133	-2591	0	2	-	1, 9, 4, 2	1, 0, 4, 2	1, 2, 4, 2	I_1, III^*, I_4, I_2	2 : 1
J1	1	-1	1	-203	987	1	4	+	8, 7, 2, 1	8, 1, 2, 1	8, 4, 2, 1	I_8, I_1^*, I_2, I_1	2 : 2
J2	1	-1	1	-923	-9669	1	4	+	4, 8, 4, 2	4, 2, 4, 2	4, 4, 2, 2	I_4, I_2^*, I_4, I_2	2 : 1, 3, 4
J3	1	-1	1	-14423	-663069	1	2	+	2, 7, 2, 4	2, 1, 2, 4	2, 2, 2, 2	I_2, I_1^*, I_2, I_4	2 : 2
J4	1	-1	1	1057	-46893	1	2	-	2, 10, 8, 1	2, 4, 8, 1	2, 4, 2, 1	I_2, I_4^*, I_8, I_1	2 : 2
K1	1	-1	1	-12542	543741	0	4	+	4, 11, 2, 1	4, 5, 2, 1	4, 4, 2, 1	I_4, I_5^*, I_2, I_1	2 : 2
K2	1	-1	1	-12722	527469	0	4	+	2, 16, 4, 2	2, 10, 4, 2	2, 4, 4, 2	I_2, I_{10}^*, I_4, I_2	2 : 1, 3, 4
K3	1	-1	1	-37472	-2125731	0	2	+	1, 26, 2, 1	1, 20, 2, 1	1, 4, 2, 1	I_1, I_{20}^*, I_2, I_1	2 : 2
K4	1	-1	1	9148	2137101	0	2	-	1, 11, 8, 4	1, 5, 8, 4	1, 2, 8, 2	I_1, I_5^*, I_8, I_4	2 : 2
L1	1	-1	1	-797	-8539	0	1	-	7, 6, 1, 3	7, 0, 1, 3	7, 1, 1, 1	I_7, I_0^*, I_1, I_3	3 : 2
L2	1	-1	1	2668	-45961	0	3	-	21, 6, 3, 1	21, 0, 3, 1	21, 1, 3, 1	I_{21}, I_0^*, I_3, I_1	3 : 1
994	$N = 994 = 2 \cdot 7 \cdot 71$ (7 isogeny classes)												994
A1	1	0	1	-1	4	1	1	-	4, 1, 1	4, 1, 1	2, 1, 1	I_4, I_1, I_1	
B1	1	0	1	255	-796	0	2	-	4, 5, 2	4, 5, 2	2, 1, 2	I_4, I_5, I_2	2 : 2
B2	1	0	1	-1165	-7044	0	2	+	2, 10, 1	2, 10, 1	2, 2, 1	I_2, I_{10}, I_1	2 : 1
C1	1	1	0	-371	-3091	0	2	-	8, 3, 2	8, 3, 2	2, 3, 2	I_8, I_3, I_2	2 : 2
C2	1	1	0	-6051	-183715	0	2	+	4, 6, 1	4, 6, 1	2, 6, 1	I_4, I_6, I_1	2 : 1
D1	1	0	1	164	922	1	3	-	8, 1, 3	8, 1, 3	2, 1, 3	I_8, I_1, I_3	3 : 2
D2	1	0	1	-1611	-39690	1	1	-	24, 3, 1	24, 3, 1	2, 3, 1	I_{24}, I_3, I_1	3 : 1
E1	1	0	0	-11	13	0	2	+	2, 1, 1	2, 1, 1	2, 1, 1	I_2, I_1, I_1	2 : 2
E2	1	0	0	-21	-17	0	2	+	1, 2, 2	1, 2, 2	1, 2, 2	I_1, I_2, I_2	2 : 1
F1	1	-1	1	-16	-13	1	2	+	8, 1, 1	8, 1, 1	8, 1, 1	I_8, I_1, I_1	2 : 2
F2	1	-1	1	-96	371	1	4	+	4, 2, 2	4, 2, 2	4, 2, 2	I_4, I_2, I_2	2 : 1, 3, 4
F3	1	-1	1	-1516	23091	1	4	+	2, 4, 1	2, 4, 1	2, 4, 1	I_2, I_4, I_1	2 : 2
F4	1	-1	1	44	1267	1	2	-	2, 1, 4	2, 1, 4	2, 1, 2	I_2, I_1, I_4	2 : 2
G1	1	0	0	-678	-5660	1	6	+	18, 3, 1	18, 3, 1	18, 3, 1	I_{18}, I_3, I_1	2 : 2; 3 : 3
G2	1	0	0	-3238	65508	1	6	+	9, 6, 2	9, 6, 2	9, 6, 2	I_9, I_6, I_2	2 : 1; 3 : 4
G3	1	0	0	-52198	-4594524	1	2	+	6, 1, 3	6, 1, 3	6, 1, 1	I_6, I_1, I_3	2 : 4; 3 : 1
G4	1	0	0	-52238	-4587140	1	2	+	3, 2, 6	3, 2, 6	3, 2, 2	I_3, I_2, I_6	2 : 3; 3 : 2
995	$N = 995 = 5 \cdot 199$ (2 isogeny classes)												995
A1	1	0	1	2	3	0	2	-	2, 1	2, 1	2, 1	I_2, I_1	2 : 2

TABLE 1: ELLIPTIC CURVES 995B–999B

	a_1	a_2	a_3	a_4	a_6	r	$ T $	s	$\text{ord}(\Delta)$	$\text{ord}_-(j)$	c_p	Kodaira	Isogenies
995	$N = 995 = 5 \cdot 199$ (continued)												995
B1	0	1	1	-15	19	1	3	-	3, 1	3, 1	3, 1	I_3, I_1	3 : 2
B2	0	1	1	85	64	1	1	-	1, 3	1, 3	1, 3	I_1, I_3	3 : 1
996	$N = 996 = 2^2 \cdot 3 \cdot 83$ (3 isogeny classes)												996
A1	0	-1	0	19	-42	0	2	-	4, 6, 1	0, 6, 1	3, 2, 1	IV, I_6, I_1	2 : 2
A2	0	-1	0	-116	-312	0	2	+	8, 3, 2	0, 3, 2	3, 1, 2	IV^*, I_3, I_2	2 : 1
B1	0	1	0	164	-8764	1	1	-	8, 13, 1	0, 13, 1	3, 13, 1	IV^*, I_{13}, I_1	
C1	0	1	0	-12	36	1	3	-	8, 3, 1	0, 3, 1	3, 3, 1	IV^*, I_3, I_1	3 : 2
C2	0	1	0	108	-876	1	1	-	8, 1, 3	0, 1, 3	1, 1, 1	IV^*, I_1, I_3	3 : 1
997	$N = 997 = 997$ (3 isogeny classes)												997
A1	0	-1	1	-18	36	1	1	+	1	1	1	I_1	
B1	0	-1	1	-5	-3	2	1	+	1	1	1	I_1	
C1	0	-1	1	-24	54	2	1	+	1	1	1	I_1	
999	$N = 999 = 3^3 \cdot 37$ (2 isogeny classes)												999
A1	1	-1	0	-69	-208	1	1	-	9, 1	0, 1	1, 1	IV^*, I_1	
B1	1	-1	1	-8	10	1	1	-	3, 1	0, 1	1, 1	II, I_1	