

Math 581d, Fall 2010, Homework 6

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Due: November 10, 2010

Do the following 3 problems, and turn them in by email (wstein@gmail.com) on Wednesday, November 10, 2010. As usual, you can find the latex of this file at <http://wstein.org/edu/2010/581d/hw/>. NOTE: In case I haven't mentioned it before, you *are* encouraged to talk to other students in class about homework (if you get a lot of help on a problem from somebody, acknowledge them).

1. Choose a trac ticket (possibly one from homework 4), and post a patch or patches resolving it, then change the status to “needs review”. Your solution to this problem should just be a link to the relevant ticket.
2. Referee a trac ticket. Your solution to this problem should just be a link to the relevant ticket. Note that you will likely have done this by the time I assign this homework problem, in which case you can quickly solve this problem!
3. Write some Cython code that uses the following features of Cython. You can either put the code in a standalone file or use the `%cython` mode of the Sage notebook.
 - (a) Create and use a `cdef class`, i.e., a cdef'd class.
 - (b) Create and use a `cdef` method of a class.
 - (c) Declare and work with some C data types such as `int`, `float`, and `long`.
 - (d) Using a function that is defined in some C library (which could even just be something from the `math.h` standard library).