

Math 480a: Sage, Spring 2011, Homework 5

William Stein

Due May 4, 2011

Instructions: Do the following three problems, and turn them in by the beginning of class on Wednesday, May 4, 2011. If you get help from a classmate or friend on any homework problem, please explicitly thank them in your write up. These problems will help you develop your knowledge of the Sage development process.

1. Create a patch to the Sage library that changes something. Your solution will consist of (1) a demo of running Sage after applying the patch that shows off what you changed, and (2) a patch file, which can be successfully applied by the grader to the Sage library included in Sage-4.6.2. If you don't want to install Sage on your own computer, you may use the `math480@sage.math.washington.edu` Linux server account that I setup (I will tell you the password in class). [Example answer: "Look at this.

```
sage: 4.factor()
Hi mom!
2^2
```

Here is my patch: `file.patch` attached to this email."]

2. Browse <http://trac.sagemath.org> (e.g., click View Tickets in the upper right) and find **two** active tickets that you think you could possibly resolve (i.e., post a patch that deals with the indicated problem or feature request) if you had months of time to devote to Sage development, and explain why you feel you could or would want to resolve them. Your answer should consist of two ticket numbers of trac tickets that are open as of May 1, 2011, and an explanation of your personal interest in them. [Example answer: "(1) *Ticket #8668: Sage 5.0 press release*. I could resolve this ticket because I am a Journalism and Communications major, and would love the opportunity to use the skills I've learned to advertise Sage to the world. I have experience with press releases through my job with the UW student paper... (2) ..."] You obviously do not have to actually post a patch to the trac ticket.
3. Browse http://trac.sagemath.org/sage_trac/report/30 and find **two** tickets that need review (as of May 1, 2011, say) that you think you could possibly **review** if you had months of time to devote to Sage development, and explain why you feel you could or would want to review them. You do not have to actually review them.