Math 480: Diagnostic

April 1, 2013

Name:

Circle *three* of the following topics that you are most interested in learning about in this course.

- Typesetting mathematical documents using LaTeX (both PDF and in web pages).

- Programming using Python

- Programming using Cython (a fast Python compiler)

- Algorithms for linear algebra over finite fields

- Symbolic calculus

- Numerical linear algebra

- Computational number theory

- Sharing mathematics over the web (e.g., interactive pages, 3d graphics in web pages)

- Statistics using numpy and R

- Revision control and collaboration tools

- Abstract algebra (groups, rings, and fields)

- Graph theory (vertices, edges, networks)