

## Math 2001: Homework W4

**Due: October 20, 2008**

The following assignment will be graded with an emphasis on clarity of exposition. You should write in complete sentences, be as precise as possible, and be mathematically correct (both in content and format). Be sure to include a title, a short introduction to the topic, and to define all the relevant mathematical terms. The assignment should be **typed**.

Prove that the Euclidean algorithm does what it is supposed to do. Be sure to also

- (a) Define relevant terms such as gcd, etc.
- (b) State the Euclidean algorithm,