

**MATH 512 HOMEWORK 2—DUE AT THE BEGINNING OF CLASS ON TUESDAY,
FEBRUARY 3, 2009**

One goal for this course is for you to develop your skill in effectively communicating mathematics. With this in mind, you should clearly write up your solutions.

- (1) Read at least the last section in chapter 2 and the first section in chapter 3. (Read more if you like!)
- (2) In chapter 2 do *exercises* 2.7, 2.9, 2.10, and 2.11. Perhaps the best hint to use for the proof you discussed at the end of class (2.10), is the one the author gives.
- (3) Write the definition of greatest common divisor that you (would) use with your junior high school or high school students.
- (4) Do *exercise* 3.1, part 2.