

First homework assignment due September 13:

All of these exercises are taken from Ireland-Rosen.

1. The Euclidean Algorithm

- *Hand in solutions to Exercises 1 and 2 on Page 14.*
- You should also do for yourself Exercise 3 on that page, but needn't hand in the solution; just try out those calculations taking a guess beforehand at (order of magnitude) how many steps you will need (i.e., how large k is) to find the answers to each of those gcd's. Nothing to hand in about this, though.
- *Hand in solutions to Exercises 4,7,11 on page 15.*

2. Greatest Common Divisor and Least Common Multiple

- *Hand in solutions to Exercises 13,19,20,21 on page 15.*

3. *Don't hand in, but just for fun do Exercise 12 on page 15.*