391 Homework 6

• Remember there is a MIDTERM on Friday! The test will be on ALL MATERIAL COVERED IN CHAPTER ONE. You should make sure you learn definitions – things like prime, unit, zero divisor, ring, integral domain, field, GCD – and know the main theorems – things like the facts about GCDs, primes, the fundamental theorem of arithmetic, the properties of zero divisors and units in $\mathbb{Z}_m, \ldots$

  The best way to prepare for this right now is to go over all the homeworks so far and make sure you understand the SOLUTIONS. The questions on the test will be the same sort of difficulty, and will include some proofs as well as computations. If you didn’t get the solution sheets I handed out in class, they are all posted on my web page http://darkwing.oregon.edu/~brundan.

  • Exercises 1.4: 13, 15.
  • Exercises 2.1: 5, 6, 7, 12
  • Exercises 2.2: 2, 3, 5, 6(a),(b).
  • The plan for the rest of term: this week and next week – sections 2.1,2.2 and 2.3; last 3 weeks of term – most of chapter 3 plus a little bit of extra material about Euclidean domains.