Math 310 Assignment 6a

PROBLEMS: 6.9ab, 6.22, 6.23, 6.26, 6.30, 6.31a

The problems above are not due, but they should give you some extra practice with Chapter 6 concepts before the exam. You should also be looking at the old exam archive as you study.

- Problem 6.9ab is more practice with finding solutions to linear diophantine equations.
- Problem 6.22 is one more problem where you get to use the definition of divisibility (you may have to think a bit to finish the problem).
- Problem 6.23 gives you more practice with prime number. There aren’t many examples, can you explain why.
- Problem 6.26 gives more practice with divisibility (expanding, which can be done quickly with the binomial theorem, and/or using induction should be your first instinct)
- Problem 6.30 should be review considering your experience in the last supplemental problem of HW 5.
- Problem 6.31a this is a great problem that shows yet another way the fundamental theorem of arithmetic appears in practice. Try a contradiction proof.

Solutions will appear by Monday.