Math 4460 - Test 2 Study Guide

Test 2 covers:
HW 3, HW 4, HW 5

There will be at least one proof directly from the HW on the test.
The computations will be similar to homework computations.

Computations to know:

- HW 4 – Problems 1, 3, 4, 5, 6, 7
- HW 5 – Problems 1, 2, 3, 4, 5, 6, 7, 8, 9

Some particularly good HW 3 proofs to look at:

- Showing a real number is irrational.   See problems 1(c,d), 2(b), 3.
- Primes.   Problems 4,5,6.

Some particularly good HW 4 proofs to look at:

- Proofs with mod.   See problems 2, 8, 9, 10.
- Showing an equation has no integer solutions.   See problems 13, 14.
- Showing a formula isn't divisible by a number.   See problem 12.

Some particularly good HW 5 proofs to look at:

- Problems 10(a), 11, 12, 13, 14(a).