

What to Study for The Final Exam
MTH 4436 – Number Theory
Spring 2012

The Final Exam covers:

Sections 1.1 – 2.3 (Part #1)

Sections 2.4 – 4.3 (Part #2)

Sections 4.4 – 5.3 (Part #3)

For Parts #1 & 2, see *What to Study for Test #1* and *What to Study for Test #2* on the website.

Part #3

Definitions and Theorems That You May Be Asked to State:

Theorem 4.7 & Corollary
Chinese Remainder Theorem
Theorem 4.9
Fermat's Theorem & Corollary
Lemma p. 89
Wilson's Theorem
Theorem 5.5

Any Theorem or Lemma that has a name, you should **KNOW** by name. The other theorems, lemmas, and corollaries you should know so that you can give their statement when asked something like: "state three theorems, lemmas, corollaries, etc. involving congruences."

Know How to Do:

All homework problems assigned in sections 4.4 – 5.3 (inclusive)