THINGS TO KNOW FOR THE FINAL

1. Previous Exams

All of the concepts from the previous exams could appear on this next exam. Applications of previous theorems will be emphasized, not reproducing the proofs. Study the previous review sheets!

2. Divisibility

(1) relatively prime (definition, and applications)
(2) Euclid’s Lemma (statement and meaning)
(3) Fundamental Theorem of Arithmetic (statement and use)

3. Limits

(1) What is a sequence?
(2) Be able to do an $\varepsilon - N$ proof for sequences.
(3) What is a series?
(4) Be able to compute the partial sums.
(5) What is the limit of a function?
(6) Be able to do an $\varepsilon - \delta$ proof for function limits.
(7) What are the limit rules?