Exam 1 covers Chapter 2 and Section 3.1. Exam 1 is scheduled for Friday January 25 and Monday January 28th.

Exam 1 is closed-book, no notes allowed.

Exam 1 has 2 parts. Part I (≈ 20 mins, 15%), Part II (50 mins, 85%)

Exam 1 Part I: State Definitions (or Axioms). You will be asked to give the formal definitions of some of the following:
- Lower or Upper bound of a set $S$
- Supremum of a bounded set $S$, Infimum of a bounded set $S$
- The absolute value function $|x|$ (piece-wise definition)
- The $\epsilon$-neighborhood of a real number $a$
- The completeness axiom of $\mathbb{R}$
- Definition of a sequence of real numbers.
- Define what it means for a sequence $(x_n)$ to converge to a real number $x$.

Exam 1 Part I: State important theorems (lemmas, properties)
- Theorem 2.1.9
- Lemma 2.3.3 for supremum (or equivalent counterpart for infimum)
- Lemma 2.3.4 for supremum (or equivalent counterpart for infimum)
- The Archimedean Property (section 2.4)

Exam 1 Part II
This part of the exam will consist of several (approximately 4) questions either identical or very similar to assignment (or quiz) problems. If your assignment/quiz solutions had errors, be sure to fix these errors prior to Exam 1.