• Exam 3 covers sections 4.2, 5.1 thru 5.4. Exam 3 is scheduled for Monday March 11 (part 1) and Wednesday March 13 (part 2)

• Exam 3 is closed-book, no notes allowed.

• Exam 3 has 2 parts. Part I (≈ 20 mins, 15%), Part II (50 mins, 85%)

• Exam 3 Part I: State Definitions (or Axioms). You will be asked to give the formal definitions of some of the following:
  – Definition 4.2.1 $f$ is bounded on a neighborhood of $c$.
  – Definition 5.1.1 $f$ is continuous at $c$.
  – Definition 5.3.1 $f$ is bounded on a set $A$.
  – Definition 5.3.3 Definition of absolute maximum and absolute minimum of a function on a set.
  – Definition 5.4.1 $f$ is uniformly continuous on a set $A$.

• Exam 1 Part I: State important theorems (lemmas, properties)
  – Theorem 5.3.2 Boundedness Theorem for continuous functions on closed bounded intervals.
  – Theorem 5.3.4 Maximum-Minimumm Theorem for continuous functions on closed bounded intervals.
  – Theorem 5.3.5 Location of Roots Theorem
  – Theorem 5.3.7 Bolzano’s Intermediate Value Theorem
  – Theorem 5.4.3 Uniform Continuity Theorem

• Exam 3 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 3.**