Study Guide for Exam 1

Exam 1 will cover the material in Sections 1.1 to 1.5 and 2.7 to 2.9 from our textbook. To prepare for the exam, I recommend the following.

• Memorize all the definitions that I stated in lecture.

• Review all the assigned HW problems from the sections listed above. Your goal is to know the solutions to these problems well enough so that, if asked, you could do one of these problems or a part of one of these problems on the exam.

• Know the proofs of the following Theorems and results. Some of these I did in lecture. Some I did not. Your goal is to know the proofs well enough so that, if asked, you could reproduce one of these proofs or a part of one of these proofs on the exam.
  – Theorem 3.5 (iii)
  – Archimedean Property 4.6
  – Theorem 9.3

• Do the following additional practice problems.
  – p.5, #1.10
  – p.18 #3.5(b)
  – p.25 #4.5, 4.7
  – p.42 #8.7
  – p.53 #9.11(a),(b)