Test #1 Preparation – Math 221 AL1 Fall 2011

The test is Wed., Sept. 21, 9:00-9:50 in 114 David Kinley Hall. No calculators, books or notes. Bring a photo id – you will need to show it when you submit your test paper. Here are some test preparation suggestions.

• Be able to do all assigned homework. Many test questions will be similar to homework problems.

• Know definitions (be able to state them):
  - Continuous
  - Tangent line to the graph of $y=f(x)$.
  - Derivative

• Be able to state theorems, being sure to get the hypothesis (if) and the conclusion (then):
  - Squeeze Theorem
  - Intermediate Value Theorem
  - If $f$ is differentiable at $a$ then $f$ is continuous at $a$

• Chapter 2 Review, p. 165
  - Concept Check
    - True-False (omit 15 from 6th edition and 16, 17 from 7th edition)
    - Exercises, if you want practice beyond the homework – omit 25-28 from 6th and 7th edition and any marked with a graphing calculator symbol.

  - Concept Check #1, 2 (but skip any functions we haven’t covered yet in Chapter 3)
  - True-False #1, 2, 6, 7, 9, 11, 12 (also 13, 14, 15 if you are using the 7th edition)
  - Exercises, if you want practice beyond the homework: 1, 3, (9 from 6th ed, 7 from 7th ed), 52, 58, 67, 69a, 70a,b, 71, 79, 89a,b,c,e, 90, 92, 106, 107, 108