Homework 16 for Math 053 Calculus II.

Fall 2008

**General guidelines:** It is very important that you complete the homework assignments to fix the ideas discussed in class and textbook. It is for your benefit to be able to assess your understanding of the material by working out homework problems. If you need help solving the problems you are welcome to come to my office during my office hours and I will be happy to help you work them out. Homework assignments will not be collected. When you solve the exercises try to write down all your work. That is the way you will be asked to do it in the tests. You are encouraged to work in groups.

**Homework 16:** Try to do these problems in the order in which they are assigned.

**Problems from section 11.1:** 1, 2, 3, 5, 7, 10, 13, 14, 15, 17, 18.

**Problem:** Give one example for each class of sequence in the following list:

1. A sequence that is increasing and bounded.
2. A sequence that is decreasing and bounded.
3. A sequence that is bounded and convergent but not monotonic.
4. A sequence that is bounded and divergent.

**More problems from section 11.1:** 28, 32, 39, 45, 51, 61, 62, 63, 69.