

# Calculus II Honors Fall 2009

## Homework 2

Due: Wed. Sep. 9, start of class

**Instructions:** Please read the homework policies and guidelines posted on the course webpage. You may *not* use a calculator (or computer) except where stated. Make sure to write your name, course and section numbers in the top right corner of your solution set, as well as the assignment number on top. Page/section numbers refer to the course text.

### Reading

Sections 5.3 and 5.4 of the text.

### Conceptual Questions (not to be turned in)

Section 5.3: 1

Section 5.4: 47, 49, 50

### Written Assignment

Total: 100 points.

All problems are worth 5 points unless stated otherwise.

**Problem A:** (10 points) Suppose  $f(x)$  has an antiderivative. Show any two antiderivatives of  $f(x)$  differ by a constant.

**Section 5.3:** 3 (10 pts), 4 (10 pts), 7, 19, 32, 35, 58 (10 pts).

**Section 5.4:** 1, 6, 10, 11, 14, 45, 56, 57.