

# MATH 150 HW: CHAPTER 5

## SPRING 2008

**Write your name and class and clearly separate sections! See the syllabus.**

Show work where appropriate, and use “good form and procedure,” as in class!

This is due when you take the Quiz on Chapter 5.

Graded out of 15 points.

“\*” denotes “See Hint below.”

Read some of the Examples for additional assistance.

Lots of cool stuff on my web site – Notes for Chapter 5!

5.1: 1-63 odd, 67, **Look at 69**

5.2: 9-49 odd, 63

**Warning:** In the Student's Solutions Manual, the authors sometimes forget to write  $u$  out in terms of  $x$  in the final answer; in this sense, the manual does not complete some of the problems.

5.3: 1

5.4: 17-35 odd, go back to: 1, 5, 13

5.5: 1-9 odd, 15, 17, 21, 25, 27

5.6: 3-37\* odd, 41, 43

**Hint on #11:** If you're clever, you can reduce your workload here.

**Hint on #25, 35:** If you're clever, there's very little work!

**Hint on #37:** You may use the result we found in class regarding the value of the relevant integral.

5.7: 9, 11, 29

**Note on #9:** The exact answer is  $\frac{\pi}{8} \approx 0.392699$ . You will learn how to work out this integral exactly in Math 151.

**Note:** If I put related questions on exams, I will give you the formulas for the Trapezoidal Rule and Simpson's Rule.

**Note:** There are “error bounds” for these two rules on p.294 and p.297. Then, look at Problem #27.