MATH 150 HW: CHAPTER 5
SPRING 2009

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 book's 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
         Typo in Example 3, p.244: There is a missing '2' in the last denominator.

5.2:   9-49 odd, 63

         Warning: In the <u>Student's Solutions Manual</u>, the authors sometimes forget
              to write u out in terms of x in the final answer; in this sense, the
              manual does <u>not</u> 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.