MATH 150 FINAL INFO + HW: CHAPTER 8 (10 POINTS EXTRA CREDIT)

SPRING 2009

START DESIGNING YOUR SHEET OF NOTES FOR THE FINAL!
Your sheet will be allowed on Part 2 (but not Part 1) of the Final. On Part 1, you will have to remember derivatives, integrals, and trig and hyperbolic identities; you may need the Chain Rule. Know all of the formulas on the front endpaper of your textbook, except for #1, #19, and #20 under "FORMULAS FOR INTEGRALS." In addition, know the derivative and integral formulas and the identities for the hyperbolic functions. Also know the definitions of sinh x and cosh x. Know the graphs, domains, and ranges of the inverse trig functions. Check the old Final (especially Part 1) on my web site.

Turn this HW in separately from the Ch.7 HW.
Chapter 8 will be well represented on the Final!
Read some of the Examples in this chapter for additional assistance.

Know the rules/formulas for derivatives and integrals, as well as basic identities.

8.1: Know the graphs, domains, and ranges of the inverse trig functions.
      1, 5, 19, 21

8.2: 1, 3, 7, 9, 17, 29, 31a, 33, 37, 41 (Think first!)
      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 <u>not</u> complete some of the problems.

8.3: 1a, 3, 5, 7, 9, 27-35 odd
      Look at the applications on p.441.
      Look at 49.
      Look at 55-70. For 57-70, notice the similarities with formulas you
          (hopefully) remember from trigonometry (listed on the back
          endpaper of your textbook). There is a sign flip from what you
          might expect on 60-69, except 61, 65, and 68.
      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 <u>not</u> complete some of the problems.
      Why are they called "hyperbolic" functions? Check my web site – Notes
          for Chapter 8.

8.4: Skip