Math 120 – Week 6 Assignments
Spring 2003

Monday February 24 *Class 12*:

More Antiderivatives and Indefinite Integrals. We shall learn more examples of antiderivatives of the elementary functions.

Homework #7: (3 points)
    Smith & Minton, pages 332-333: 9, 11, 22, 29, 41, 42
Due on Wednesday in *Class 13*

Wednesday February 26 *Class 13*:

Introduction to Integration By Substitution. We shall analyze the Chain Rule for Differentiation and see how the analogous rule for antidifferentiation leads to the technique of Integration by Substitution.
Homework:
    Quiz #4: Part 3 of the Fundamental Theorem of Calculus
Due in *Class 14*

Thursday February 27 *Lab 3* :

Patterns of Antiderivatives. We shall establish rules for antidifferentiation by considering a large number of antiderivatives and observing patterns.

Friday February 28 *Class 14* :

Integral Exchange. We shall see how integration by substitution allows us to exchange or trade one apparently hard definite integral for an easier definite integral.
Homework #8: (6 points)
    Smith & Minton, pages 382-383: 5, 9, 16, 28, 50, 67
Due on Monday in *Class 15*