Homework Assignment #5
Due Tuesday, October 31, 2006

Turn in the problems below that are listed in **bold underline**. You should do all of the problems listed below for practice, but only submit those in **bold underline**.

Section 3.1, # 3, 4, 5, 7, 8, 9, 10, 13, 14, 15, 19, 20, 22, 23, 37, 38, 45, 46, 47, 48, 49, 61, 62

Comments: In problem 3.1.22, treat $v$ as the variable, and treat $a$, $b$ and $c$ as constants. For problem 3.1.48, you’ll need to rewrite the function $y = x\sqrt{x}$ in a different form so that you can use the techniques from section 3.1. You’ll probably have learned the product rule in class by the time you do this assignment, but don’t use it for this problem. For problem 3.1.62, you’ll need to use the given information to write down three equations involving the unknowns $a$, $b$ and $c$; then you’ll use algebra on that system of equations equations to determine what the actual values of $a$, $b$ and $c$ must be.