Homework 2

This homework is due by 6PM on Friday 1/21/11. You are encouraged to work on the problem sets as a group, but each student must hand in their own problem set.

1 Solving equations

Textbook Questions: Section 1.3: Problems 8, 10, 12, 14, 16, 18, 20, 22

You must show all the algebra steps you are taking towards deriving the solution. Merely providing the answer will be graded as 0 for the question. You can check your answers using Wolfram Alpha (see course for detail).

2 Functions (part 2)

Creating functions

Textbook Questions: Section 4.4: Problems 2, 4, 22.

In problem 22, also graph the function $A(x)$ (the area as a function of x) either by hand, or using a graphing tool, and write up your analysis of your graph in the manner we did in class (what do you learn about the problem from the graph? – two sentences are enough, don't write a novel) Make sure to attach your graph.

Operations on functions

Textbook Questions: Section 3.5: Problems 2, 10, 14, 16, 28