${\rm Quiz} \ 1, \underset{_{\rm Summer Session I, \ 2012}}{\rm Business} \ Calculus$

Name: _____

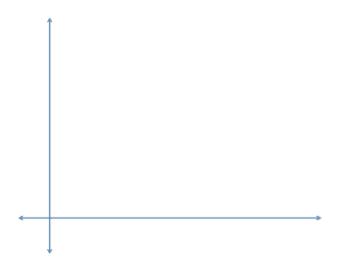
1. (5 points) Find the roots of the quadratic equation $5x^2 - 3x - 2 = 0$ either by factoring, or by using the quadratic formula $\left(\frac{-b \pm \sqrt{b^2 - 4ac}}{2a}\right)$.

2. (5 points) The output of nuclear plants in the US (as a percent of total capacity) is given by the equation

$$y = 2t + 65$$

where t is measured in years, with t = 0 corresponding to 1990.

(a) Sketch the line with the given equation:



(b) What was the percentage output in 1997?

(c) What will the percentage output be in 2015? Does this make sense? Why or why not?