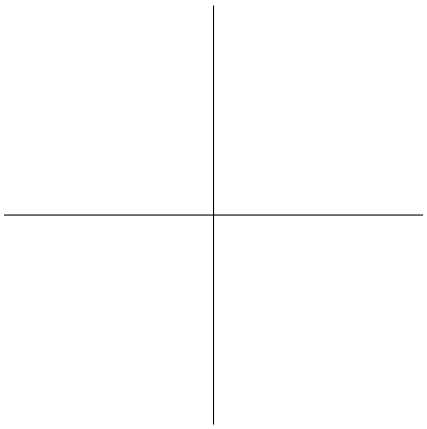
Name: _____ **Quiz 4**

Math 111 Intro to Math Methods and Applications – Crawford **04 December 2013**

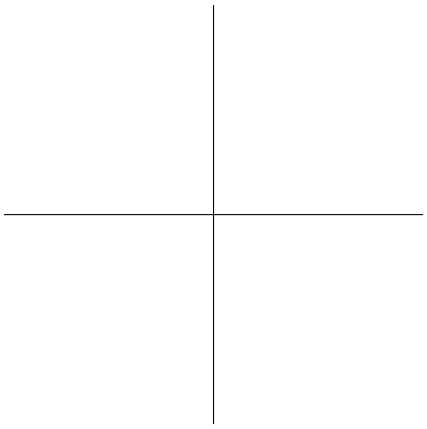
Book, notes (in any form), and calculators are not allowed. *Show all your work.* Good Luck! [Form A]

1. (8 pts) Sketch a graph of each of the following functions. Label 2 points.

(a). $y = 2e^x$



(b). $y = 3^{-x}$



2. (4 pts) Given that $y = \left(\frac{1}{4}\right)^x$, write an equivalent equation in the form $y = b^{-x}$, with $b > 1$.

3. (8 pts) Use properties of exponents to solve the following equations for x.

(a). $2^x = 16$

(b). $5^{2x-1} = \frac{1}{25}$