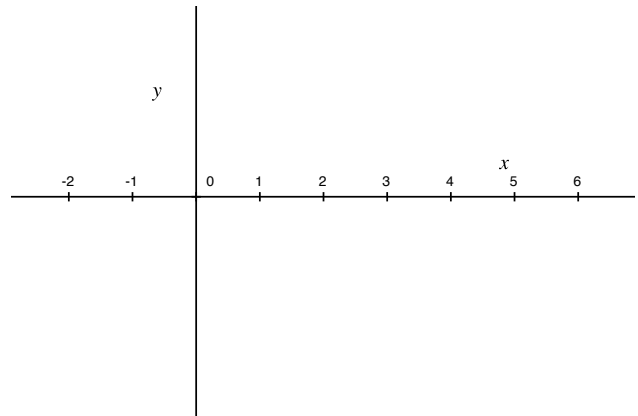
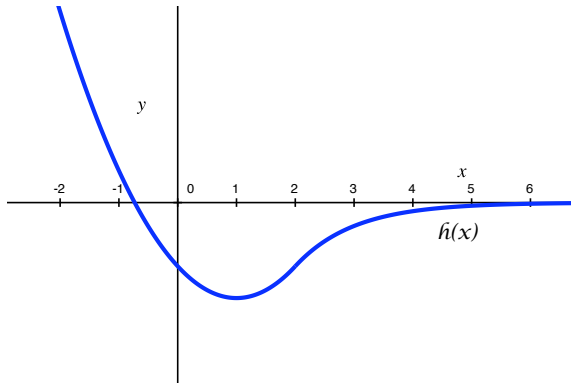


Math 151 Quiz #4
October 20, 2009

Name: _____

Simplify your answers. Show all work on a separate paper. Staple this sheet to your answers.

1. (2 pts.) Sketch the derivative function $h'(x)$ on the axes provided given the graph of h below.



2. (3 pts.) Find the values of x for which $g(x) = 2x^3 - 3x^2 + 5$ has a slope of 12.
3. (3 pts.) If the position of a rabid squirrel moving along a straight path is given by $s = 15\sqrt[5]{t} - \frac{1}{2}t^2 + 3$ in feet at t seconds, what is the velocity of the squirrel at 1 second? (Include units.)
4. (2 pts.) For $y = 3x^4e^x + 7x$, find $\frac{dy}{dx}$.