Name: ____

Wednesday, 18 February 2008

You must always justify your answers. This means: show your work, show it neatly, and when in doubt, use words (and pictures!) to explain your reasoning. No justification = no points.

1. (6 pts) Find all numbers x such that $y = (x^2 - x - 1)e^x$ has a horizontal tangent at (x, y).

2. (4 pts) Find the derivative of the following function:

 $f(x) = \frac{x^2}{1+5x}$

3. (bonus) On the back of this page, explain something you did well on the midterm, and something you didn't.

Math 1A: Quiz 3 GSI: Theo Johnson-Freyd