Math 1A: Quiz 5

Name: _____

GSI: Theo Johnson-Freyd   Wednesday, 25 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 an equation of the tangent line at the point $(0, 1)$ to the following curve:

$$y = \frac{\cos x}{\cos x - \sin x}$$

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

$$f(x) = 2^{\sqrt{x}}$$

3. (bonus) On the back of this page, describe something you like about this discussion section, and something you don't like.