Math 150A, Section 2, Spring 2007
Quiz 3

Name:

Show your work. No work, no credit.

1. Find the limit $\lim_{\theta \to 0} \dfrac{\cos\theta - 1}{\sin\theta}$.

2. A particle moves according to the law of motion $s(t) = t^3 - 12t^2 + 36t$, where $t \geq 0$ is measured in seconds and s in feet. When is the particle at rest?

3. Give the derivatives of the functions $\sec$ and $\tan$. Then find the derivative of the function $f(x) = \sec x \tan x$.

4. Find the derivative of the function $f(x) = \sqrt[7]{(x^2 - 5)^6}$.

Pledged
Honor code: I have neither given nor received help on this quiz.