Name: _____

Quiz 3

Math 251

You have 20 minutes to complete **both sides** of this quiz. When you're finished, first check your work if there is time remaining, then turn it in. You may use your class notes (i.e. not the online notes), and a scientific calculator, but not a graphing one. You may not consult other people or the internet. **Show all your work.**

1. (4 points) If $R(x)$ is a function giving the revenue from selling x items, then what is the definition of $MR(x)$ and what is its interpretation in terms of revenue? Your answer should be an equation for the definition and a sentence for the interpretation.

2. (8 points) Let $f(t) = \dfrac{\tan(t)}{t}$. What is $f'(t)$?

3. (8 points) Let $g(x) = \sin(x)\cos(x)$. Find $g'(x)$.