Quiz 1- MAC 2311, Sp'15   **NAME:** _____   **Panther ID:** _____

1. (6 pts) Compute the derivative of each of the following functions:

(a) $f(x) = \dfrac{4}{\sqrt{x}} - 3\cos x + 10^5$

(b) $g(x) = \dfrac{\tan x}{1 + \sec x}$

2. (5 pts) Find the equation of the tangent line to the graph of $f(x) = x \sin x$ at $x = \frac{\pi}{2}$.