Math 135, Quiz # 4, Febuary 17, 2014

1. Use the definition of the derivative to compute $f'(x)$ if $f(x) = 6x^2 - 5$. Use the derivative to find the slope of the tangent line to the graph of $f(x)$ at the point $(3, 49)$.

2. Find the equation of the secant line for the function $g(x) = 2x^3 + x + 4$ from $x = 1$ to $x = 2$.