Math 135, Quiz # 4, February 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 \( x = 2 \).