

Math 157 - Quiz 6

October 8, 2014

Name _____

Score _____

Show all work to receive full credit. Supply explanations when necessary.

1. (4 points) Find an equation of the line tangent to the graph of $f(x) = 2x^3 - 2x^2 + 1$ at the point where $x = 1$.

2. (3 points) Let $s(t) = t^2 + 2 \ln t$. Find $s''(t)$.

3. (3 points) Find the instantaneous rate of change of $h(t) = \ln(6t + e^t)$ at $t = 0$.