Math 172 - Quiz 4

September 13, 2017

Name _____

Score _____

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

1. (3 points) Find the slope of the line tangent to the graph of $y = x\,7^{x^2}$ at the point where $x = 1$.

2. (3 points) Integrate: $\displaystyle \int \frac{\log_3 x^2}{5x}\, dx$

3. (3 points) Determine the derivative of $y = x^x$.

4. (1 point) What is the exact value of $\sin^{-1}(\sin(13\pi/6))$?