

Name _____

Mathematics 105D: Calculus I
Fall Semester 2012
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October 31
Quiz #18

Suppose that $f(x) = \sin^3(\pi e^{4x})$

A. What is the formula for $f'(x)$?

B. Give the value of $f'(0)$.

C. Give the value of $f(0)$.

D. Give the equation of the tangent line to the graph of $y = f(x)$ at the point $(0, f(0))$