

Math 105 Section C
Quiz 3 (10 points)

Name: _____

- Show all your work to receive full credit for a problem.

1. Find the equation of the line tangent to the graph of $f(x) = 3xe^{x^2}$ at $x = 2$.

2. Find the derivatives of the following functions.

(a) $g(t) = \sqrt{\frac{\ln(5t)}{1+t^4}}$

(b) $f(x) = \cos^2(x^3 \sin x)$