

Quiz 3A, Business Calculus

Fall 2012

Name: _____

For all questions, use the shortcut rules for taking derivatives. You do not need to use the limit definition (the four-step process) for any questions on this quiz.

NO CALCULATORS are allowed on this quiz.

1. (3 points) Find $f'(x)$ if $f(x) = (2x^3 - 5)(x^7 + 2)$. Simplify your answer.

2. (4 points) Find $f'(x)$ if $f(x) = \frac{7x^4 + 3x + \sqrt{x}}{x^2}$. Simplify your answer.

3. (3 points) Find the equation for the tangent line to the curve $f(x) = (3x^2 - 2x + 1)^6$ at the point $(0, 1)$.