

MATH 1270 Sec 005, 007
CALCULUS FOR THE BUSINESS WITH APPLICATIONS II
QUIZ 1
January 19, 2011

Name (Last, First) _____

1. Find the derivative of the following function.

$$f(x) = 12(2x^4 + 5)^{3/2}$$

$$f'(x) = 12 \cdot \frac{3}{2}(2x^4 + 5)^{3/2-1} \cdot 8x^3$$

$$f'(x) = 144x^3(2x^4 + 5)^{1/2}$$

2. Find the derivative of the following function.

$$f(x) = xe^x$$

$$f'(x) = xe^x + e^x \text{ (using the Product Rule).}$$