

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
Math101/Calculus I
Quiz 3
One Problem, March 27th, 2016 ¹

Problem 1 (15 points)

Compute the derivative of y with respect to x

$$y = \sqrt{-x} - \frac{1}{x}$$

$$y = [1 - \ln(x)]e^{2x+x^2}$$

$$y^2x + x^2y + x^3 = \sin(y + 4)x$$

$$y = \frac{3x^3+x}{x^2+1}$$

$$y = 2x^3 + 2^{x^3}$$

$$x = (4y^3 - 3y^2)^4$$

¹The quiz lasts 30 minutes.