

King Fahd University of Petroleum & Minerals
Department of Mathematics and Statistics
Math101/Calculus I
Quiz 3
One Problem, November 3rd, 2015 ¹

Problem 1 (15 points)

Compute the derivative of y with respect to x

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

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

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

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

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

$$x = (5y^4 - 3y)^5$$

¹The quiz lasts 30 minutes.