KFUPM – Department of Mathematics and Statistics – Term 153

MATH 101

QUIZ # 4: Code 1 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points) Find $\frac{dy}{dx}$ if $xy^2 + x^2 y = e^{xy}$

Exercise 2 (5 points) Find an equation of the tangent line to the curve $y = \log_2(1 + x^2)$ at $x_0 = 1$

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QUIZ # 4: Code 2 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points) Find $\frac{dy}{dx}$ if $xy^2 + x^2 y = \sin(xy)$

Exercise 2 (5 points) Find an equation of the tangent line to the curve $y = \log_3(3 + x + x^2)$ at $x_0 = 0$

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QUIZ # 4: Code 3 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points) Find $\frac{dy}{dx}$ if $xy^2 + x^2 y = \cos(xy)$

Exercise 1 (5 points) Find an equation of the tangent line to the curve $y = \log_5(3 + x + x^2)$ at $x_0 = 1$