KFUPM – Department of Mathematics and Statistics – Term 171

MATH 101

QUIZ # 7: Code 1 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (4 points) Use Newton's method to approximate $\sqrt{3}$. Find the first three terms if $x_1 = 1$

Exercise 2 (6 points) If $F(x) = (ax + b)Ln(x) + dx$ is an antiderivative of $f(x) = Ln(x)$, find the values of a, b, d and the general antiderivative of $f(x) = Ln(x)$.

KFUPM – Department of Mathematics and Statistics – Term 171

MATH 101

QUIZ # 7: Code 2 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (4 points) Use Newton's method to approximate $\sqrt{5}$. Find the first three terms if $x_1 = 2$

Exercise 2 (6 points) If $F(x) = (ax^2 + bx + d)e^x$ is an antiderivative of $f(x) = x^2 e^x$, find the values of a, b, d and the general antiderivative of $f(x) = x^2 e^x$.