KFUPM – Department of Mathematics and Statistics – Term 161

MATH 102

QUIZ # 2 Code 1 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find the area enclosed by the curves $y = \sqrt{x}$, $y = e^x$, $x = 0$ and $x = 1$.

Exercise 2 (5 points)

Find the volume of the solid obtained by rotating the region enclosed by the curves $y = \sqrt{x}$, $y = e^x$, $x = 0$ and $x = 1$ about the $x-axis$.

KFUPM – Department of Mathematics and Statistics – Term 161

MATH 102

QUIZ # 2 Code 2 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find the area enclosed by the curves $y = x^2$, $y = e^x$, $x = 0$ and $x = 1$.

Exercise 2 (5 points)

Find the volume of the solid obtained by rotating the region enclosed by the curves $y = x^2$, $y = e^x$, $x = 0$ and $x = 1$ about the $x - axis$.