KFUPM – Department of Mathematics and Statistics – Term 142

MATH 102

QUIZ # 2 Code 1 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

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

Exercise 2 (5 points)

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

KFUPM – Department of Mathematics and Statistics – Term 142

MATH 102

QUIZ # 2 Code 2 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find the area of the region enclosed by the curves $y = \sqrt{x}$, $y = 2 - x$ and $y = 0$.

Exercise 2 (5 points)

Find the volume of the solid obtained by rotating the region enclosed by the curves $y = \sqrt{x}$, $y = 2 - x$ and $y = 0$ about $y - axis$.