KFUPM – Department of Mathematics and Statistics – Term 112

MATH 102

QUIZ # 2 Code 1 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find the volume of the solid obtained by rotating the region enclosed by the curves $y = x^3$ and $y = x^2$ about the line $y = 2$.

Exercise 2 (5 points)

Find the area between the curves $y = x^2 + 1,\ y = \frac{1}{\sqrt{x}},\ y = 2$ and $y = 3$ (**show all your steps)**

KFUPM – Department of Mathematics and Statistics – Term 112

MATH 102

QUIZ # 2 Code 2 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find the area between the curves $y = x^2 + 2,\ y = \frac{1}{\sqrt{x}},\ y = 2$ and $y = 3$ (**show all your steps)**

Exercise 2 (5 points)

Find the volume of the solid obtained by rotating the region enclosed by the curves $y = x^3$ and $y = x^2$ about the line $y = -2$.