KFUPM – Department of Mathematics and Statistics – Term 122

MATH 102

QUIZ # 3 Code 1 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find the area of the surface of the solid obtained by rotating the curves $y = x^2$ from 0 to $\sqrt{2}$ about $y - axis$.

Exercise 2 (5 points)

Evaluate $\int \frac{dx}{\sqrt{x + x^2}}$.

KFUPM – Department of Mathematics and Statistics – Term 122

MATH 102

QUIZ # 3 Code 2 (Duration = 20 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find the area of the surface of the solid obtained by rotating the curves $y = \sqrt{x}$ from 0 to 2 about $x-axis$.

Exercise 2 (5 points)

Evaluate $\int \frac{dx}{\sqrt{x^2 - x}}$.