KFUPM – Department of Mathematics and Statistics – Term 132

MATH 102

QUIZ # 2 Code 1 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find a simple formula for the area of the region enclosed by the curves $y^2 = x - 1$ and $y = x - 3$ [**Do not evaluate the integral**].

Exercise 2 (5 points)

Find a simple formula for the volume of the solid obtained by rotating the area enclosed by the curves $y^2 = x - 1$ and $y = x - 3$ about the line $y = 2$ [**Do not evaluate the integral**].

KFUPM – Department of Mathematics and Statistics – Term 132

MATH 102

QUIZ # 2 Code 2 (Duration = 15 minutes)

NAME:_____ ID:_____ Section: _____

Exercise 1 (5 points)

Find a simple formula for the area of the region enclosed by the curves $y^2 = x - 2$ and $y = x - 4$ [**Do not evaluate the integral**].

Exercise 2 (5 points)

Find a simple formula for the volume of the solid obtained by rotating the area enclosed by the curves $y^2 = x - 2$ and $y = x - 4$ about the line $y = 2$ [**Do not evaluate the integral**].