KFUPM – Department of Mathematics and Statistics – Term 141

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 $y = \sqrt{x}$, $y = -x + 2$ and $y = 0$.

Exercise 2 (5 points)

Find a simple formula for the volume of the solid obtained by rotating the region enclosed by the curves $y = \sqrt{x}$, $y = -x + 2$ and $y = 0$ about the line $y = 1$. **Do not Evaluate the integral** (Hint: Use Cylindrical Shells)

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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 $y = \sqrt{x}$, $y = x + 2$ and $y = 0$.

Exercise 2 (5 points)

Find a simple formula for the volume of the solid obtained by rotating the region enclosed by the curves $y = \sqrt{x}$, $y = x + 2$ and $y = 0$ about the line $y = 2$. **Do not Evaluate the integral** (Hint: Use Cylindrical shells)