KFUPM – Department of Mathematics and Statistics – Term 111

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 $y = x^3$, $x = 1$ and $y = 0$ about the line $y = 2$

Exercise 2 (5 points)

Evaluate the integral $\int \frac{1 - \ln^4(x)}{x} dx$ (**show all your steps**)

KFUPM – Department of Mathematics and Statistics – Term 111

MATH 102

QUIZ # 2 Code 2 (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 $y = x^3$, $x = 1$ and $y = 0$ about the line $y = -1$

Exercise 2 (5 points)

Evaluate the integral $\int x \tan(x^2) dx$ (**show all your steps**)