

KFUPM
Mathematics & Statistics

Term 172
MATH 102

Date: 11/3/2018
Duration: 20 minutes

Quiz# 4

Name:

ID #:

Section:

Q1: The volume of the solid generated by the rotation of the region bounded by the curves $y = x^4$, $y = 0$, $x = 1$ about the y axis is

Q2: Find $\int_1^{e^2} \frac{\ln y}{\sqrt{y}} dy$

Q3. The volume of the solid generated by rotating the region enclosed by the curves $x = 1 + (y - 2)^2$ and $x = 2$ about the line $y = 4$ is given by

Q4. Find the average value of $f(x) = \cos^2(\pi x)$ on the interval $[-1,1]$.