KFUPM | Term 122 | Date: 24/2/2013

Mathematics & Statistics | MATH 102 | Duration: 25 minutes

Quiz# 2

Name: ID #: Section 28 Serial #:

Q1. Find the volume of the solid generated by revolving the region bounded by the curves $f(x) = \frac{1}{x^2+1}$, $y = 0$, $x = 0$, $x = 3$ about the y – axis.

Q2. Find the length of the curve $y = \frac{1}{2}x^2 - \frac{1}{4}\ln x$ from $x = 2$ to $x = 4$.

P.T.O. →

***Q*3**. Find the volume of a solid such that the base of the solid is the region bounded by the curves $y = \sqrt{x}$, $y = 0$, $x = 2$, and $x = 3$. The cross sections of the solid perpendicular to the y – axis are squares with one side lying along the base.

With My Best Wishes