

King Fahd University of Petroleum & Minerals
Department of Mathematical Sciences
MATH - 102 Semester 092 **Quiz - 2**

Name: _____ ID#: _____

Section#: _____

Problem 1 Use cylindrical shell method to set up the integral for finding the volume of the solid obtained by rotation the region bounded by $y = x^2 + 1$ and $y = -x + 3$

A) about the x -axis

B) about the line $x = 1$

Problem 2 Use the disc method to find the volume of the solid obtained by rotating the region bounded by $y = \sqrt{x}$, and the lines $y = 1$, $x = 4$ about the line $y = 1$.