King Fahd University of Petroleum and Minerals

MATH 201   QUIZ #4   Term 152   *Dr. A. Khalfallah*

Name: Section: ID:

Q1. Evaluate the iterated integral

$$\int_0^4 \int_{\sqrt{x}}^2 \frac{1}{y^3 + 1}\, dy\, dx$$

Q2 Find the volume of the solid whose base is the region in the xy plane that is bounded by the parabola $y = 4 - x^2$ and the line $y = 3x$ while the top of the solid is bounded by the plane $z = x + 4$