

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 201 - Quiz 6

Name:

Student ID #:

Question 1. Evaluate the double integral $\int_{1/4}^1 \int_{x^2}^x \sqrt{\frac{x}{y}} dy dx$.

QUESTIONS 2 IS ON THE BACK OF THE PAGE.

Question 2. Setup a double integral, but do not evaluate, to calculate the volume of the cylinder $y = \sqrt{9 - x^2}$ bounded by the planes $z = 0$, $z = 3 - x$, and $y = 0$.