

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

Name:

Student ID #:

Question 1. Express the integral $\int_0^1 \int_1^{e^y} f(x, y) dx dy$ as an equivalent integral with the order of integration reversed.

QUESTION 2 IS ON THE BACK OF THE PAGE.

Question 2. Evaluate $\iint_R \sin\left(\frac{y}{x}\right) dA$ where R is the region in the first quadrant enclosed by $y = x^3$, $x = \sqrt{\pi/2}$, and $y = 0$.