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

Name:
Student ID #:

Question 1. Using double integrals, setup the volume enclosed by $y + z = 10$, $x + 2y = 3$, $y = |x|$, and $z = 0$. (Do not evaluate the double integral.)

QUESTION 2 IS ON THE BACK OF THE PAGE.

Question 2. Consider the double integral $\int_0^4 \int_{\sqrt{x}}^2 y^3 \sin(\pi y^3) dy dx$.

(1) Sketch the region of integration.

(2) Evaluate the double integral.