

**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  $\int_1^2 \int_0^{y^2} e^{x/y^2} dx dy$ .

**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  $y = 0$ .