

**KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS**  
**DEPARTMENT OF MATHEMATICS AND STATISTICS**  
**MATH 201 - QUIZ 5**

Name:

Student ID #:

**Question 1.** Find the point on the curve  $x^2 + y^2 - 4x - 4y + 7 = 0$  farthest from the origin.

**Question 2.** Consider the double integral  $\int_e^{e^2} \int_1^{\ln x} f(x, y) dy dx$ . Sketch the region of integration and write an equivalent double integral by reversing the order of integration.

**Your Solution.**