

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 201 Quiz 4
First Semester 2009–2010(092)

Name: _____

ID #: _____

Sec#: _____

1. Find all critical points of $f(x, y) = x^2 + y^2 + x^2y$ and classify them as points of local maximum, local minimum or saddle points.
2. Find absolute maximum and minimum of $f(x, y) = e^{x+y}$ on the line segment joining $P = (1, -1)$ with $Q(1, 1)$.