

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 201
QUIZ 4

Name:

Student ID #:

Question1. Decide whether the following limit exists or not. If it exists, then calculate it.

$$\lim_{(x,y) \rightarrow (0,0)} \frac{1 - e^{x^2+y^2}}{x^2 + y^2}$$

Question2. Find the equation of the tangent plane to the surface $f(x, y) = xe^{-2y}$ at the point $(1, -1)$.

Your Solution.