

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

Name:

Student ID #:

Question 1. Find the equation of the normal line and the tangent plane to the surface $z = \pi x e^y \cos z$ at the point $(1, 0, -\pi)$.

Question 2. Find all local extrema and saddle points of the function $f(x, y) = e^y - y e^x$.

Your Solution.