

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 201 - QUIZ 3

Name:

Student ID #:

Question 1. Describe the intersections of the planes $z = k$ for any k and the quadratic surface $4z^2 = 1 + x^2 + 4y^2$. Find all values of k for which there is no intersection.

Question 2. Find an equation of the plane which contains the lines $x = \frac{y}{2} = \frac{z}{3}$ and $\frac{x}{3} = y = \frac{z}{8}$.

Your Solution.