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

Name:
Student ID #:

Question 1. Consider the lines

$$L_1 : x = t + 2,\ y = 3t,\ z = 1 - t \text{ and } L_2 : x = 5s - 1,\ y = 8 - 2s,\ z = -s.$$

(a) Find the point at the intersection of L_1 and L_2.
(b) Find the equation of the plane which contains L_1 and L_2.

Question 2. Find the traces of the surface $4x^2 - 16y^2 + z^2 + 16 = 0$ and identify it.

Your Solution.