

Name: \_\_\_\_\_ I.D.# \_\_\_\_\_ Serial # \_\_\_\_\_

Q1: Find equation of the plane that contains the two parallel lines  $L_1 : x = 2t, y = 1 - t, z = 2t$  and  $L_2 : x = 1 + 4t, y = 2t, z = 2 + 4t$

Q2: Identify and sketch the surface  $4x^2 - 4y^2 + 16z^2 = 0$

Q3: Find distance between the two parallel planes  $x + 2y + 2z - 3 = 0$ , and  $2x + 4y + 4z - 1 = 0$ .