

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

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

Q2: Identify and sketch the surface  $9x^2 - 4y^2 - 36z^2 = 0$

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