

Name: _____ I.D.# _____ Serial # _____

Q1: Find distance between the line $L_1 : x = 2 + t, y = 1 - 2t, z = 3 - t$, and the plane $3x - y - z = 1$.

Q2: Find equation of the plane that contains the line $x = 2 + 2t, y = t, z = 1 - 2t$ and the point $P(2, 1, 0)$.

Q3: Identify and sketch the surface $4x^2 - 4y^2 - z^2 = 16$.