Q1. Find the distance between the planes,
   \[ 2x - 3y + z = 4 \quad \text{and} \quad 4x - 6y + 2z = 3. \]

Q2. (a) Find the equation of the line of intersection of
    the planes, \( 3x - 2y + z = 1 \) and \( 2x + y - 3z = 3 \).
    (b) What is the angle between the planes?

Q3. Find the equation for the plane consisting of all
    points that are equidistant from the points \((2,5,1)\) and
    \((-6,3,1)\).

Q4. Use traces to sketch and identify the surfaces:
   (a) \( x = y^2 - z^2 \)
   (b) \( 8x^2 + y^2 - 2z^2 + 2 = 0 \)

Q5. Reduce the equation to a standard form, classify it, and sketch it:
    \( x^2 - y^2 + z^2 - 4x - 2y - 2z + 4 = 0. \)

Note: 'Sketch' means draw a fair surface, show the axes, mark some important points, and a few traces.