KFUPM Term (142) Name_____Serial#_____

MATH 201 Quiz # 2(a) ID#_____ Section 9

Time: 20 Minutes Marks : /8

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1) Find distance between the line $L: x = 1 - t, y = 2 + t, z = 3 - t$ and plane $P: 3x + y - 2z = 6$

2) Identify and draw a sketch of the surface:

$$x^2 - y^2 + z^2 - 4x - 2y - 2z + 4 = 0$$

KFUPM Term (142) Name_____Serial#_____

MATH 201 Quiz # 2(b) ID#_____ Section 9

Time: 20 Minutes Marks: /8

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1) Find the parametric equations of the line in which the planes $x - 2y + 4z = 2$ and $x + y - 2z = 5$ intersect.

2) Identify and draw a rough sketch of the surface:

$$4x^2 + 4y^2 + z^2 + 8y - 4z + 4 = 0$$