

King Fahd University of Petroleum and Minerals
Department of Mathematical Sciences
Math 201, Sections: 3, 6, 13 (061)
Quiz 2(a)

Time: 15 Minutes

Marks: _____/9

Name: _____ Section #: _____

ID #: _____ Serial #: _____

1. Find equation of a sphere with center $(-1, 2, 1)$ that is tangent to the plane $P : 6x - 3y + 3z = 1$. Check if the plane P is parallel or perpendicular to the line $L : x = 10 - 2t, y = -1 + t, z = 31 - t$.

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Quiz 2(b)

Time: 15 Minutes

Marks: _____/9

Name: _____ Section #: _____

ID #: _____ Serial #: _____

1. Find equation of a plane whose points are equidistant from $(4, -2, 2)$ and $(3, 2, 5)$.

2. Find parametric equations for the line of intersection of the planes $x + 2y - 9z = 7$ and $2x - 3y + 17z = 0$.

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Quiz 2(c)

Time: 15 Minutes

Marks: _____/9

Name: _____ Section #: _____

ID #: _____ Serial #: _____

1. Find point of intersection of the plane $P : 2x + 3y - z = 0$ and the line through $(2, 1, 0)$ that is perpendicular to the plane P . Also find the angle between planes P and $x - 2y + 3z = 0$.

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Quiz 2(d)

Time: 15 Minutes

Marks: _____/9

Name: _____ Section #: _____

ID #: _____ Serial #: _____

1. Find distance between the lines

$$L_1 : \quad x = 3 + t, \quad y = 2 - 4t, \quad z = t$$

$$L_2 : \quad x = 4 - t, \quad y = 3 + t, \quad z = -2 + 3t.$$