

KFUPM--Term 152

Math 201

Quiz 2(a)

Time: 20 minutes

Date: 16-2-16

Name	ID	Sr	Sec	Marks:- /8
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Q 1. Find the center and radius of the sphere $x^2 + y^2 + z^2 - 2\sqrt{2}(x + y - z) + 4 = 0$.

Q2. Find A and B if $C\left(\frac{9}{2}, -1, 4\right)$ is their midpoint and $\overrightarrow{AB} = \vec{i} + 4\vec{j} - 2\vec{k}$.

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Quiz 2(b)

Time: 20 minutes

Date: 16-2-16

Name	ID	Sr	Sec	Marks:- /8
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Q 1. Describe the set of all points that are 3 units from the point $(0,1,0)$ and at the same time 3 units from the point $(0, -1,0)$ with a single equation or a pair of equations.

Q2. Find A and B if $C(5,1,2)$ is their midpoint and $\overrightarrow{AB} = 4\vec{i} + 6\vec{j} + 4\vec{k}$.

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Quiz 2(c)

Time: 20 minutes

Date: 18-2-16

Name	ID	Sr	Sec	Marks: /8
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Q 1. Find the center and radius of the sphere $2x^2 + 2y^2 + 2z^2 + x + y + z = 9$.

Q2. Find the component form of the unit vector obtained by rotating the vector $\langle 0,1 \rangle$ 120° counterclockwise about the origin.

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Quiz 2(d)

Time: 20 minutes

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Q 1. Describe the set of all points in space that are equidistant from the origin and the point $(0,2,0)$ with a single equation or a pair of equations.

Q2. Find the component form of the unit vector obtained by rotating the vector $\langle -1,0 \rangle$ 30° counterclockwise about the origin.