KFUPM--Term 151

Math 201 Quiz 2(a) Time: 20 minutes Date: 27-10-15

Name	ID	Sr	Sec	Marks:- /8

Q 1. Find parametric equations for the line through $(1, 2, -1)$ and perpendicular to the vectors $\boldsymbol{u} = i + 2j + 3k$ and $\boldsymbol{v} = 3i + 2j + k$.

Q2. Identify and sketch the surface: $4x^2 + 4y^2 + z^2 = 8y + 4z - 4$.

KFUPM--Term 151

Math 201 Quiz 2(b) Time: 20 minutes Date: 27-10-15

Name	ID	Sr	Sec	Marks:- /8

Q 1. Show that L_1: $x = 1 + t,\ y = -2 + 3t,\ z = 4 - t$ and L_2: $x = 2s,\ y = 3 + s,\ z = -3 + 4s$ are skew.

Q2. Identify and sketch the surface: $x^2 + 2z^2 + 10 = 6x + y$.

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Math 201 Quiz 2(c) Time: 20 minutes Date: 27-10-15

Name	ID	Sr	Sec	Marks: /8

Q 1. Find the distance between the line $x = 1 - t,\ y = 2 + t, z = 3 - t$ and the plane $3x + y - 2z = 6$.

Q2. Identify and sketch the surface: $x^2 + 4y^2 = z^2 + 4$.

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Math 201 Quiz 2(d) Time: 20 minutes Date: 27-10-15

Name	ID	Sr	Sec	Marks:- $/_8$

Q 1. Find equation of plane through the origin and the points $(2,-4,6)$ and $(5,1,3)$.

Q2. Identify and sketch the surface: $36(1-x^2)=4y^2+9z^2$.