KFUPM--Term 152

Math 201 Quiz 3(a) Time: 20 minutes Date: 22- 3- 16

Name	ID	Sr	Sec	Marks:- /8

Q 1. Find the equation of the plane P_1 through $A(2,1,-2)$ perpendicular to the vector from the origin to A. Also find an angle between the planes P_1 and $P_2: x+y=1$.

Q2. Find and sketch the domain of the function $f(x,y)=\frac{\sqrt{x+y+1}}{x-1}$. Is it a bounded domain?

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Math 201 Quiz 3(b) Time: 20 minutes Date: 22- 3- 16

Name	ID	Sr	Sec	Marks:- /8

Q 1. Find the distance from the point $(3,-1,4)$ to the line $x = 4 - t, y = 3 + 2t, z = -5 + 3t$.

Q2. Find $\lim_{(x,y)\to(0,0)} \frac{x^2+y^2}{\sqrt{x^2+y^2+1}-1}$, if it exists.

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Math 201 Quiz 3(c) Time: 20 minutes Date: 22- 3- 16

Name	ID	Sr	Sec	Marks: /8

Q 1. Find the distance between line: $x = 2 + t,\ y = 1 + t,\ z = -\frac{1}{2}(1 + t)$ and plane: $x + 2y + 6z = 10$.

Q2. Find and sketch the domain of the function $f(x, y) = x\ ln(y^2 - x)$. Is it closed or open?

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Math 201 Quiz 3(d) Time: 20 minutes Date: 22- 3- 16

Name	ID	Sr	Sec	Marks:- /8

Q 1. Find the distance from the plane $x + 2y + 6z = 1$ to the plane $x + 2y + 6z = 6$.

Q2. Find $\lim_{(x,y)\to(0,0)} \frac{e^{-x^2-y^2}-1}{x^2+y^2}$, if it exists.