KFUPM--Term 171

Math 201 Quiz 2(a) Time: 20 minutes Date: 14-11-2017

Name	ID	Sr.#	Sec.#	Marks:- /6

Q 1. Find parametric equations and symmetric equations of the line that passes through the points $P(2, 4, -3)$ and $Q(3, -1, 1)$. At what point this line intersects xz-plane?

Q2. Find and sketch the domain of $f(x, y) = \sqrt{x} + \sqrt{y} + ln(9 - x^2 - y^2)$ and find level curve of $f(x, y)$ that passes through the point $(2,2)$.

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Math 201 Quiz 2(b) Time: 20 minutes Date: 14-11-2017

Name	ID	Sr.#	Sec.#	Marks:- /6

Q 1. Find the equation of the plane that contains the line $x = 4 - t,\ y = 2t - 1,\ z = -3t$ and passes through the point $(3,\ 5, -1)$.

Q 2. Find and sketch the domain of $f(x, y) = \frac{\sqrt{x-y^2}}{ln(4-x^2-y^2)}$ and find level curve of $f(x, y)$ that passes through the point $(1,1)$.

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Math 201 Quiz 2(c) Time: 20 minutes Date: 14-11-2017

Name	ID	Sr.#	Sec.#	Marks: /6

Q 1. Find the equation of plane P_1 through $A(3,\ 0,-3)$ and perpendicular to the vector from the origin to A. Find angle between the planes P_1 and P_2: $x - y = 1$.

Q2. Find and sketch the domain of $f(x,y) = \frac{\sqrt{x-1}}{y}$ and find level curve of $f(x,y)$ that passes through the point $(4,3)$.

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Math 201 Quiz 2(d) Time: 20 minutes Date: 14-11-2017

Name	ID	Sr.#	Sec.#	Marks:- /6

Q 1. Find parametric equations and symmetric equations of the line that passes through the point $P(-6, 2, 3)$ and parallel to the line $\frac{1}{2}x = \frac{1}{3}y = z + 1$. At what point this line intersects yz-plane?

Q2. Find and sketch the domain of $f(x, y) = 4ln(3 - 2x^2 - y^2)$ and find level curve of $f(x, y)$ that passes through the point $(1,0)$.