

**KFUPM--Term 171**

Math 201

Quiz 2(a)

Time: 20 minutes

Date: 14-11-2017

Name	ID	Sr.#	Sec.#	Marks:- /6
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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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Quiz 2(b)

Time: 20 minutes

Date: 14-11-2017

Name	ID	Sr.#	Sec.#	Marks:- /6
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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  $(1,1)$ .