

**KFUPM--Term 171**

Math 201

Quiz 2(c)

Time: 20 minutes

Date: 14-11-2017

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

Time: 20 minutes

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