

King Fahd University of Petroleum and Minerals
Department of Math & Stat
Math 132 Section # 1, 5 (092)
Quiz 5(a)

Time: 20 minutes

Marks: _____/9

Name: _____ Section #: _____

ID #: _____ Serial #: _____

1. Sketch the surface $9x^2 + 4z^2 = 36$.

2. For $g(x, y, z) = e^x \sqrt{y + 2z}$, find value of $g_z(x, y, z)$ at $(0, 1, 2)$.

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Quiz 5(b)

Time: 20 minutes

Marks: _____/9

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1. Find equation of the plane that is parallel to yz -plane and passes through the point $(9, 4, -2)$.

2. For $f(x, y, z) = \sin(3x + yz)$, find $f_{xx} \left(0, \frac{\pi}{2}, 1\right)$.

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Quiz 5(c)

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1. Find traces of the surface

$$3x + y + 2z = 6$$

in coordinate planes and sketch this surface.

2. If $z = xe^{x-y} + ye^{y-x}$, then find $\frac{\partial z}{\partial x} + \frac{\partial z}{\partial y}$.