

King Fahd University of Petroleum & Minerals

Department of Mathematical Sciences

Math 201, Section: 15(051)

Quiz-3(a)

Time: 15 Minutes

Marks:...../9

Name:

Serial #:

ID#:

Section #:

1. Identify the Surface: $4x^2 + 4y^2 + z^2 + 8y - 4z = -4$.

Draw a rough sketch of this surface.

2. Find equation of the surface $z^2 = x^2 - y^2$ in spherical coordinates.

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Quiz-3(b)

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Name:

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1. Use traces to sketch graph of the surface: $16x^2 - 9y^2 + 36z^2 = 144$.

2. Find and sketch domain of $f(x, y) = \ln(y - 2x)$