

King Fahd University of Petroleum and Minerals
Department of Mathematical Sciences
Math 201, Section: 8 (062)
Quiz 5(a)

Time: 15 Minutes

Marks: _____/9

Name: _____

ID #: _____

Serial #: _____

1. Use polar coordinates to evaluate $\iint_R x(x^2 + y^2)^3 dA$ where R is bounded by the semicircle $y = \sqrt{4 - x^2}$ and the x -axis.

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Quiz 5(b)

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Marks: _____/9

Name: _____

ID #: _____

Serial #: _____

1. Evaluate $\int_0^9 \int_{\sqrt{y}}^3 \cos(x^3) dx dy$.