

King Fahd University of Petroleum & Minerals

Department of Mathematical Sciences

Math 201, Section: 15(051)

Quiz-5(a)

Time: 15 Minutes

Marks:...../9

Name:

Serial #:

ID#:

Section #:

1. Use Polar Coordinates to evaluate:

(i)
$$\int_0^2 \int_0^{\sqrt{2x-x^2}} \sqrt{x^2 + y^2} dy dx$$

(ii) Volume of the solid bounded by $z = 4 - x^2 - y^2$ and the xy -plane.

(i)

(ii)

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Quiz-5(b)

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