

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 201
QUIZ 6

Name:

Student ID #:

Question. Evaluate the double integral by converting to polar coordinates.

$$\int_0^2 \int_0^{\sqrt{2x-x^2}} \sqrt{x^2 + y^2} \, dx \, dy$$

Solution.