

KING FAHD UNIVERSITY OF PETROLEUM AND MINERALS
DEPARTMENT OF MATHEMATICS AND STATISTICS
MATH 201
QUIZ 2

Name:

Student ID #:

Question 1. Find the polar equation for the curve $(x^2 + y^2)^2 = 4x^2y^2$ and then sketch it.

Question 2. Set up, but **do not evaluate**, the integral that represents the area that lies inside the curve $r = 4 \sin(\theta)$ and outside the curve $r = 2$.

Your Solution.