

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math 201 - Quiz 2

Name:

Student ID #:

Question 1. Sketch the curve $r^2 \sin(2\theta) = 2$ by finding its Cartesian equation.

Question 2. Setup but do not evaluate an integral that calculates the length of the inner loop in the sketch of the curve $r = \frac{1}{2} + \cos(\theta)$.

QUESTIONS 3 IS ON THE BACK OF THE PAGE.

Question 3. Setup but do not evaluate an integral that calculates the area enclosed by one leaf of the three-leaved rose $r = \sin(3\theta)$.