

King Fahd University of Petroleum and Minerals

MATH 201 QUIZ #2 Term 161

Name:

Serial:

ID:

Q1. Identify the curve by finding a Cartesian equation for

(a) $r^2 \cos 2\theta = 1$

(b) $r = \sec \theta$

Q2. Find the area of the region that lies inside $r = 3 \sin \theta$ and outside $r = 2 - \sin \theta$.

Q3 Find the length of the cardioid $r = 2 + 2 \sin \theta$