

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-131 QUIZ II

NAME:

S.No.

ID:

Maximum Marks: 10

Section:11

Time Allowed: 20 minutes

(1) Sketch the curve for the polar equation $r = 2 + 2\cos 2\theta$.

(2) Find the area inside the curve $r = 1 + \sin\theta$ and outside the curve $r = \sin\theta$, where $\frac{\pi}{3} \leq \theta \leq \frac{\pi}{2}$.