

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-161 QUIZ II

NAME:

S.No.

ID:

Maximum Marks: 8

Section:23

Time Allowed: 30 minutes

- (1) Graph the set of points whose polar coordinates satisfy $r = -1$, $\pi \leq \theta \leq 2\pi$.
- (2) Find the area of the region that lies inside the both curves $r = 1 + \cos(\theta)$ and $r = 1 - \cos(\theta)$.
- (3) Find the length of the polar curve $r = 3^\theta$, $0 \leq \theta \leq \pi$.