

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:01

Time Allowed: 30 minutes

- (1) Graph the set of points whose polar coordinates satisfy $0 \leq \theta \leq \pi$, $r = -1$.
- (2) Find the length of the polar curve $r = 5^\theta$, $0 \leq \theta \leq 2\pi$.
- (3) Find the area of the region that lies outside the curve $r = \sqrt{3}$ and inside the curve $r^2 = 6 \cos(2\theta)$.