King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201   Semester-143   QUIZ II

NAME: S.No.   ID:

Maximum Marks: 10   Section: Time Allowed: 40 minutes
(1) Graph the curve $r = \sin 3\theta$.
(2) Find the area inside the curve $r = 1 + \sin \theta$ and outside the curve $r = \sin \theta$, where $\frac{\pi}{3} \leq \theta \leq \frac{\pi}{2}$.
(3) Find the slope of the curve $r = 5 - 4 \sin \theta$ at $\theta = \pi$.