King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-083 QUIZ I

NAME: S.No. ID:

Maximum Marks: 10 Section:06 Time Allowed: 15 minutes

(1) Find cartesian equation of the curve whose polar equation is given as \( r = -\cot \theta \sec \theta \).

(2) Find the area of the region that lies inside the curve \( r = 3\sin \theta \) and outside the curve \( r = 1 + \sin \theta \).