King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-152 QUIZ 02

NAME: S.No. ID:

Maximum Marks: 10 Section:13 Time Allowed: 35 minutes

(1) Sketch the polar curve $r = |\sin(2\theta)|, \ \ 0 \leq \theta \leq \pi$.

(2) Determine the polar coordinates of the intersecting point(s) of the curves $r = \sqrt{3}\cos\theta$ and $r = 1 + \sin\theta$.

(3) Find the area of the region inside the circle $r = 2\sin\theta$ and above the line $r = \frac{3}{2}\,csc\,\theta$.