

King Fahd University of Petroleum and Minerals
Department of Mathematics and Statistics
Math-201 Semester-111 QUIZ II

NAME:

S.No.

ID:

Maximum Marks: 15

Section:10

Time Allowed: 25 minutes

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

(2) Sketch the curve with polar equation $r = 2\cos(\frac{\theta}{2})$ $0 \leq \theta \leq \frac{3\pi}{2}$.