## King Fahd University Of Petroleum and Minerals

MATH 201 Instructor Dr. A. Khalfallah Term 121

	QUIZ # 1	
Name:	ID:	

Q1: Sketch the curve  $r^2 = \cos(\theta)$  and find the area that is encloses.

**Q2** Sketch the two curves and find the area of the region that lies inside both curves.

 $r = \sin \theta$  ;  $r = 1 - \sin \theta$ 

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m Q3}$  Find the area inside the larger loop and outside the smaller loop of the limaçon  $r=1+2\cos heta$