

Math 181
Fall, 2008

Name _____

Homework #10
Due Monday, October 20
No late papers accepted! No excuses!

1. Find the slope of the curves at the given points.

a) $r = \cos(2\theta)$ $\theta = \pi/2$

b) $r = -1 + \sin\theta$ $\theta = 0$

2. Find the points of intersection of the pairs of curves.

a) $r = \cos\theta$
 $r = 1 - \cos\theta$

b) $r^2 = \sqrt{2} \sin \theta$
 $r^2 = \sqrt{2} \cos \theta$

3. Sketch the graph of $r = 1 + \sin \theta$. Show some work.