MATH 152 Mrs. Bonny Tighe

QUIZ 11A

NAME ____

25 points 11.3

Section_____Wed 12/7/05

1. Find the Cartesian coordinates for the polar coordinate

a)
$$(3, \frac{5\pi}{4})$$

b)
$$(3, -5\pi/3) =$$

and two different Polar coordinates for the points:

2. Find the distance between the two points with polar coordinates (2.5π)

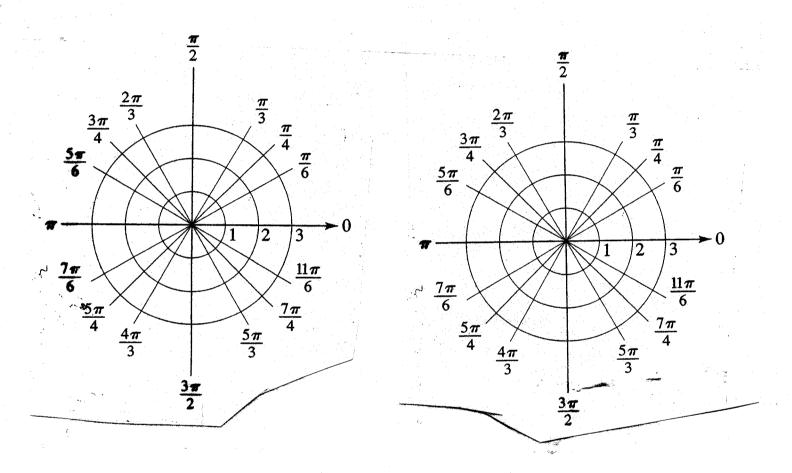
$$(2, \frac{5\pi}{6})$$
 and $(1, \frac{\pi}{4})$

3. Find the slope of the tangent line to the curve $r = \cos 2\theta$ at $\theta = \frac{\pi}{4}$

- 4. Find a polar equation for the curve represented by the Cartesian equation x-2y=3.
- 5. Sketch the curve with the given polar equation.

a)
$$r = 1 + \sin 2\theta$$

b)
$$r = \cos 3\theta$$



6. Find the points on the curve $r = 1 + \cos \theta$ where the tangent line is horizontal or vertical.