

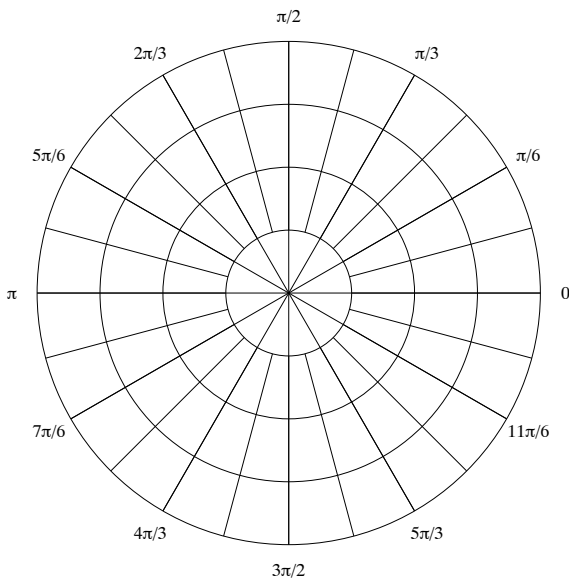
Math 120 Quiz #8  
March 3, 2008

Name: \_\_\_\_\_

Show all work.

1. (3 pts.) Convert  $r^3 = r + 2 \sin \theta$  into a rectangular equation.

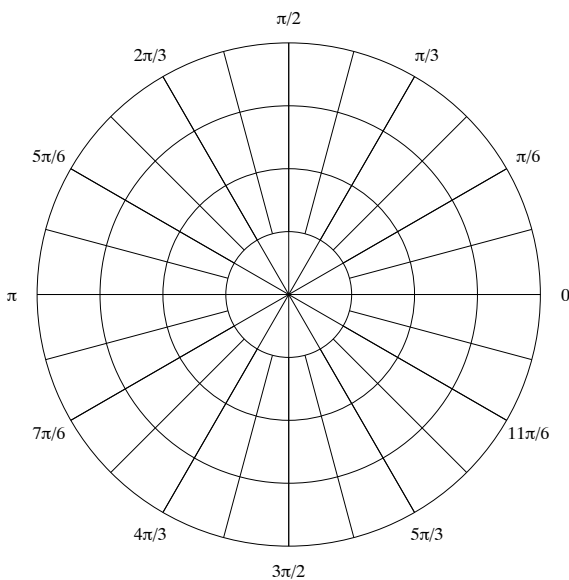
2. (3 pts.) Sketch the following points given in polar coordinates on the given polar grid. Label each point.



(a)  $(3, \frac{2\pi}{3})$

(b)  $(-1, \frac{\pi}{6})$

3. (4 pts.) Sketch the following curves of each polar equation on the given polar grid. Label each curve.



(a)  $r = 4$

(b)  $\theta = -\frac{\pi}{6}$