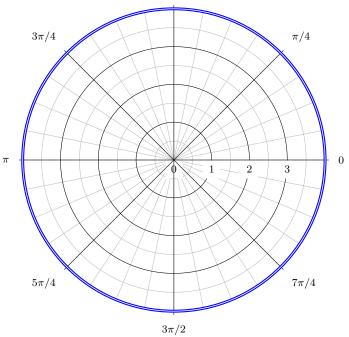
Trigonometry	Name:
Study Guide 22	Class:
Due Date:	Score:

 $\mathbf{No} \ \mathbf{Work} \Leftrightarrow \mathbf{No} \ \mathbf{Points}$



1. (5 points) Plot the polar points $(2,0), (-2, \pi/4), (3, 3\pi/4), (-3, 5\pi/4), (4, 7\pi/4), (2, \pi)$ below. Clearly label each point. $\pi/2$

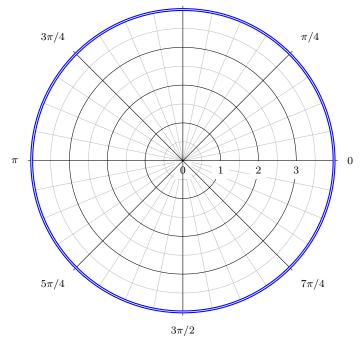


2. (3 points) Convert the polar point $(-6,\pi/3)$ to a rectangular coordinate point.

2.

3. (3 points) Convert the polar equation r = 4 to a rectangular equation.

4. (6 points) Draw the polar equations $r = 2, r \cos \theta = 3, r = -2 \csc \theta$ below. Clearly label each graph.



5. (3 points) Convert the rectangular point $(-6, 2\sqrt{3})$ to a polar coordinate point.

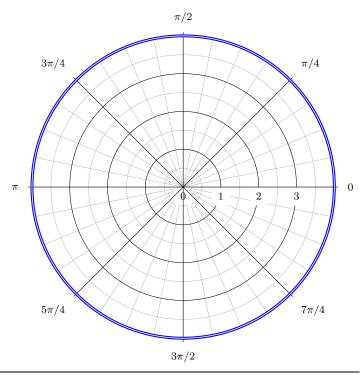
5. _____

6. (3 points) Convert the rectangular equation 2x - 3y = 6 to a polar equation.

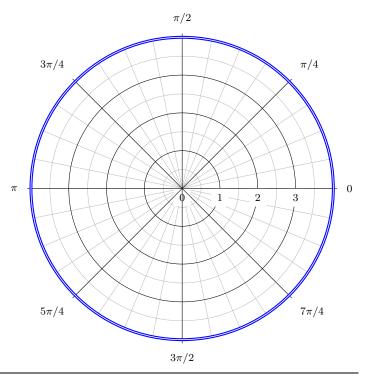
6. _____

7. (3 points) Convert the polar equation $r = 6 \sin \theta$ to a rectangular equation.

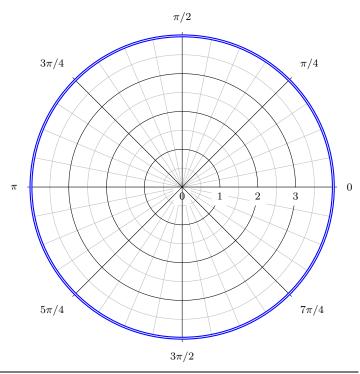
8. (6 points) Draw $r = 2 - \sin \theta$. Show your work in details and clearly label all important points.



9. (6 points) Draw $r = 1 + 2\cos\theta$. Show your work in details and clearly label each important points.



10. (6 points) Draw $r = 3\sin 2\theta$. Show your work in details and clearly label all important points.



11. (6 points) Draw $r = 2\cos 3\theta$. Show your work in details and clearly label each important points.

