Calculus II	Name:
Study Guide 25	Class:
Due Date:	Score:

No Work ⇔ No Points

Use Pencil Only ⇔ Be Neat & Organized

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.
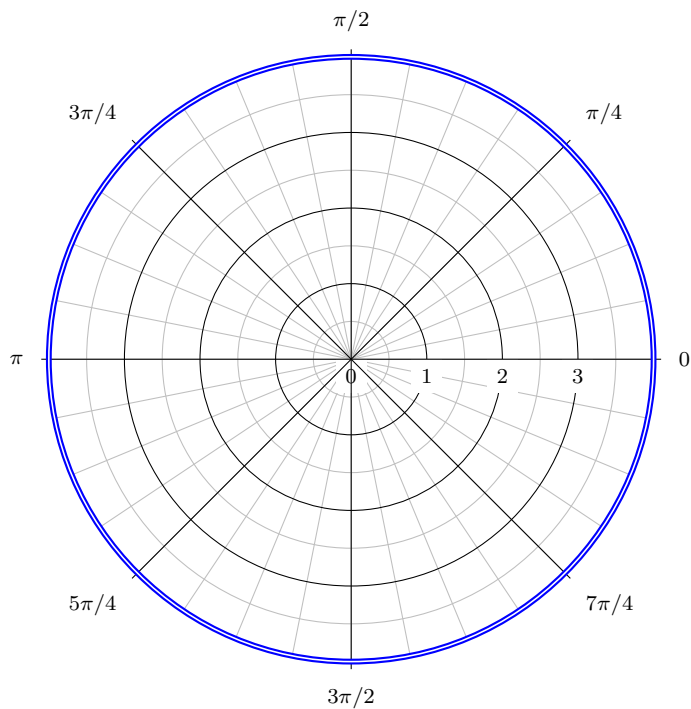

2. (3 points) Convert the polar point $(-6, \pi/3)$ to a rectangular coordinate point.

2. _____

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

3. _____

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

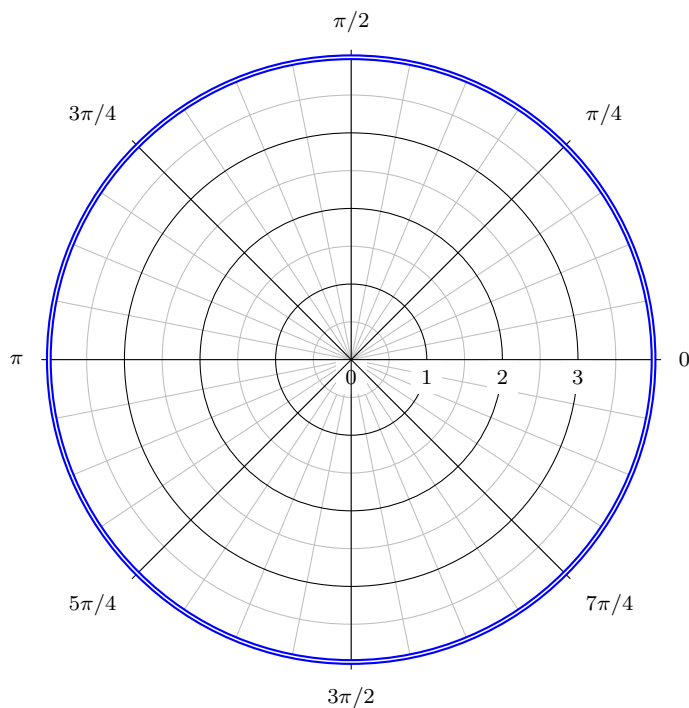5. (3 points) Convert the rectangular point $(-6, 2\sqrt{3},)$ to a polar coordinate point.

5. _____

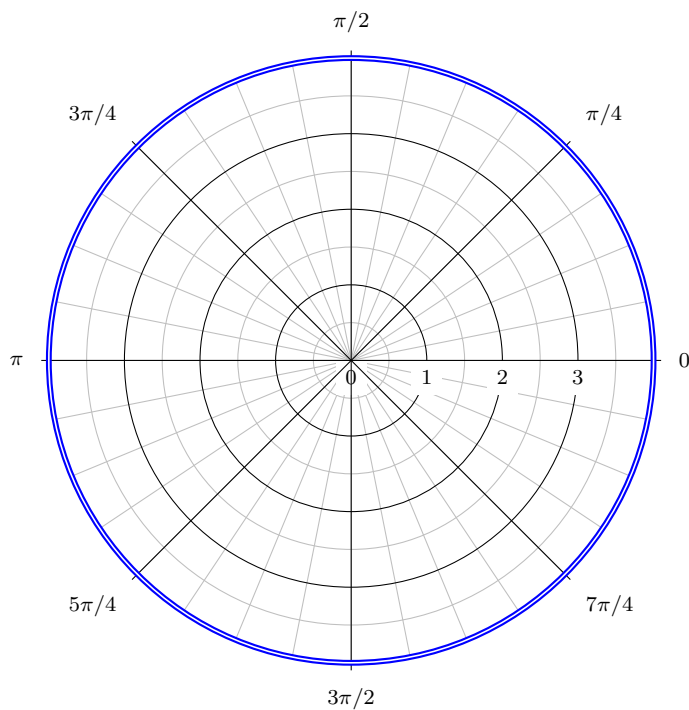6. (3 points) Convert the rectangular equation $2x - 3y = 6$ to a polar equation.

6. _____

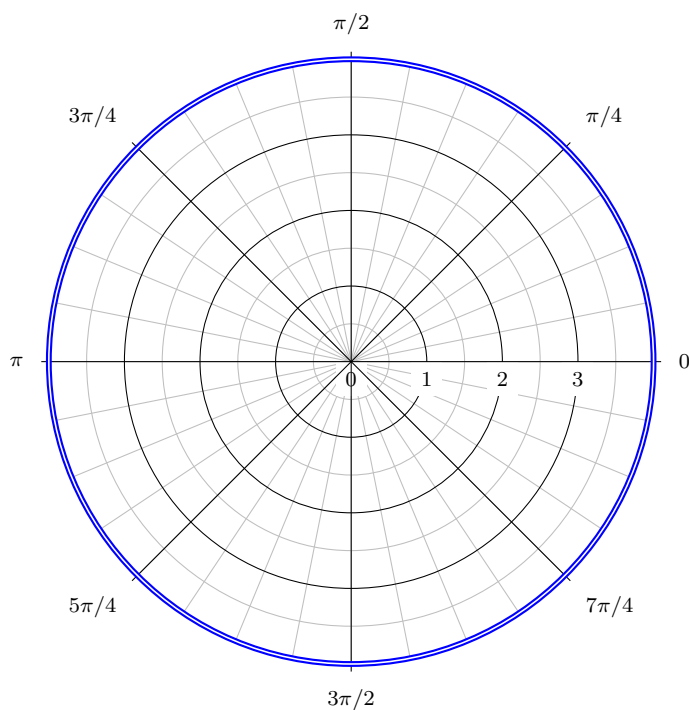7. (3 points) Convert the polar equation $r = 6\sin\theta$ to a rectangular equation.

7. _____

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.