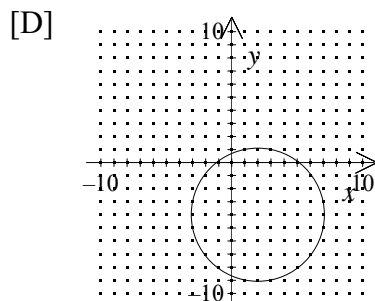
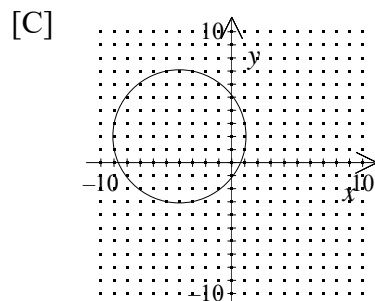
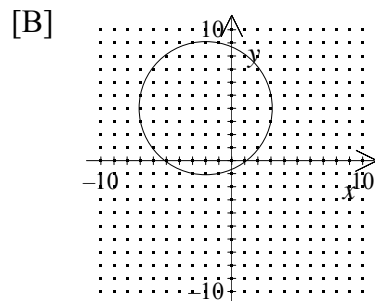
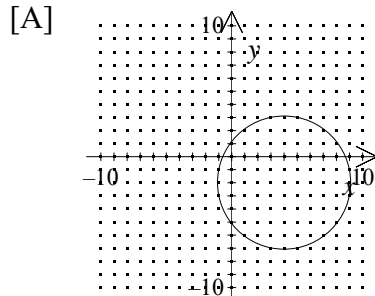


NAME: _____

1. A circle has center $(4, 3)$ and contains the point $(-1, 2)$. Write the equation of the circle.

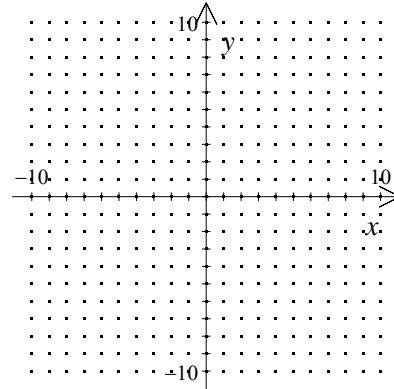
[1] _____

2. Sketch the graph of $(x-2)^2 + (y+4)^2 = 25$



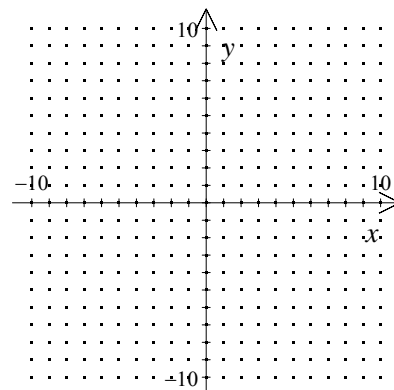
[2] _____

3. Find the center and radius of the circle. Then graph the circle. $(x-1)^2 + (y-2)^2 = 4$



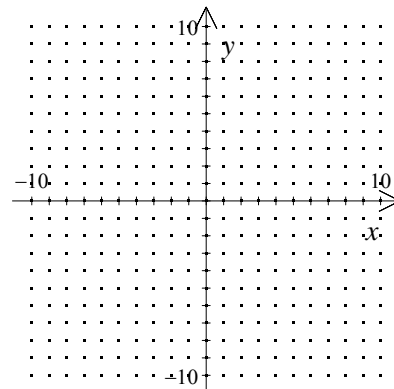
[3] _____

4. Find the center and radius of the circle. Then graph the circle. $(x+2)^2 + (y+4)^2 = 9$



[4] _____

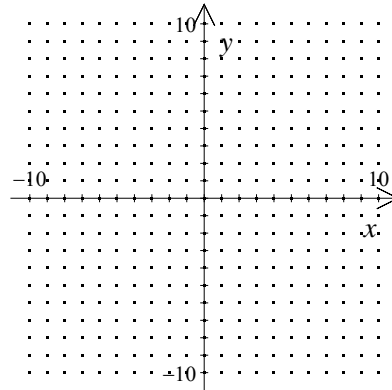
5. Find the center and radius of the circle. Then graph the circle. $(x-4)^2 + (y+2)^2 = 4$



[5] _____

NAME: _____

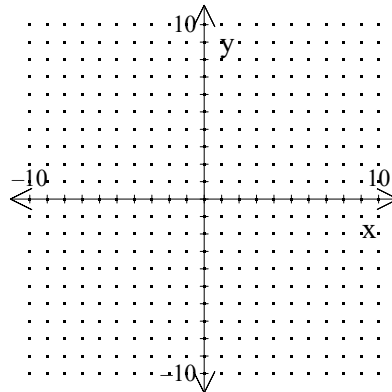
6. Find the center and radius of the circle. Then graph the circle. $(x+4)^2 + (y+3)^2 = 4$



[6] _____

7. Graph the given pair of functions. Identify the conic section represented by the graph and write its equation in standard form.

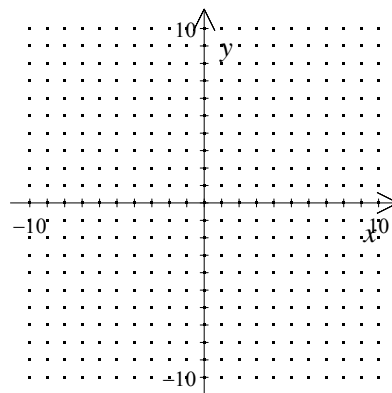
$$y = 5 + \sqrt{9 - (x + 1)^2} \text{ and } y = 5 - \sqrt{9 - (x + 1)^2}$$



[7] _____

8. Graph the pair of functions. Identify the conic section represented by the graph and write its equation in standard form.

$$y = \sqrt{49 - (x - 2)^2}; \quad y = -\sqrt{49 - (x - 2)^2}$$

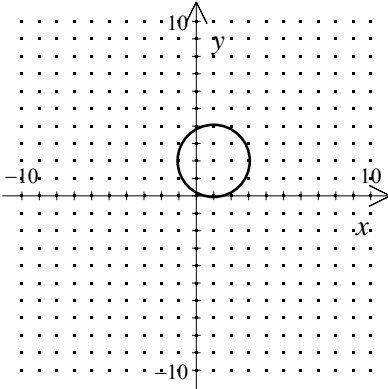


[8] _____

[1] $(x-4)^2 + (y-3)^2 = 26$

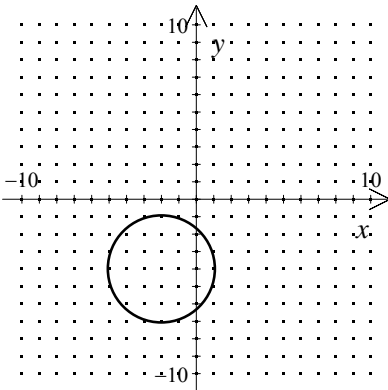
[2] D

center: (1, 2), radius: 2



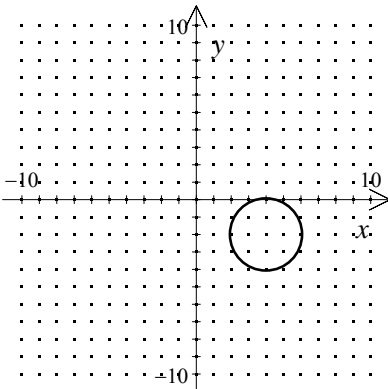
[3]

center: (-2, -4), radius: 3



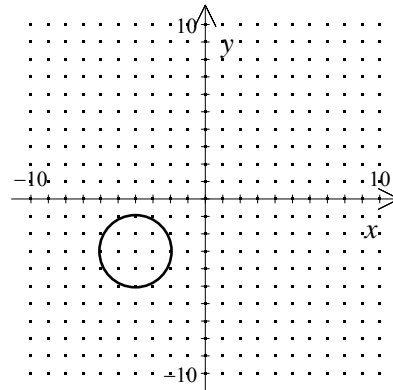
[4]

center: (4, -2), radius: 2



[5]

center: (-4, -3), radius: 2



[6]

circle with center (-1, 5) and radius 3;

[7] $(x+1)^2 + (y-5)^2 = 9$

[8] circle; $(x-2)^2 + y^2 = 49$
