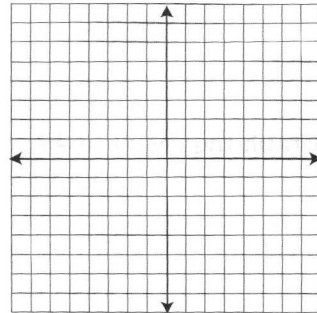


LESSON PRACTICE

23B

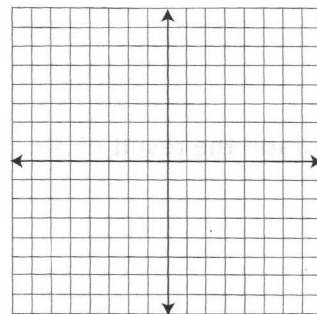
Follow the directions.

- Given $(X + 4)^2 + (Y + 4)^2 = 5$, find the coordinates of the center and the radius of the circle.



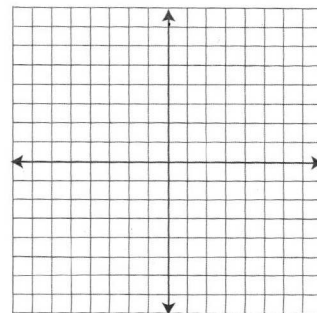
- Graph the result of #2.

- Given the center $(2, 1)$ and the radius (4.5) , create the equation of the circle.



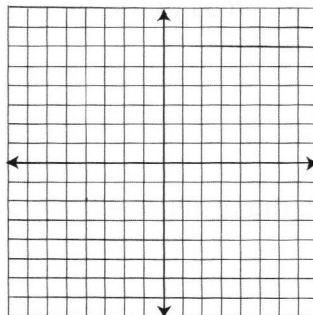
- Graph the result of #3.

- Given $X^2 - 8X + Y^2 + 12Y = -48$, find the center and the radius by completing the square.



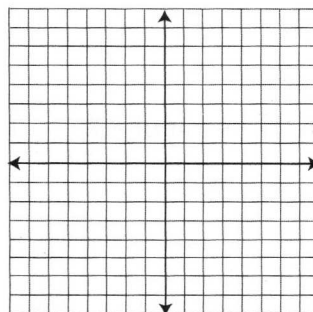
- Graph the result of #5.

7. Given $4(X - 2)^2 + 16(Y + 1)^2 = 64$, find the coordinates of the center and the X and Y extremities.



8. Graph the result of #7.

9. Given $\frac{(X - 1)^2}{9} + \frac{(Y + 1)^2}{1} = 1$, find the coordinates of the center and the X and Y extremities.

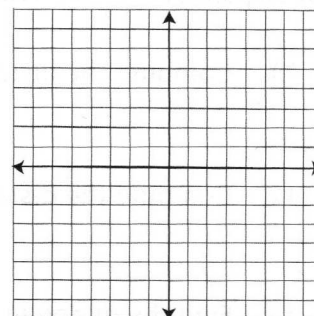


10. Graph the result of #9.

SYSTEMATIC REVIEW

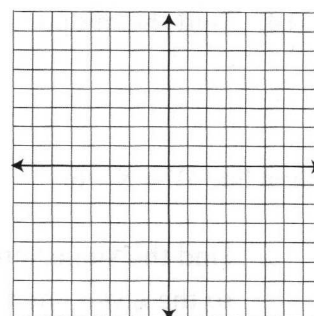
Follow the directions.

- Given $X^2 + Y^2 = 9$, find the coordinates of the center and the radius of the circle.



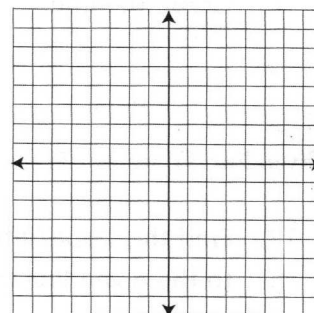
- Graph the result of #1.

- Given the center (1, 1) and radius (3), create the equation of the circle.



- Graph the result of #3.

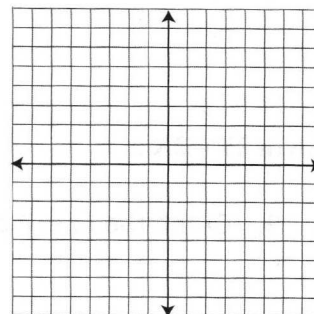
- Given $X^2 + 6X + Y^2 + 6Y = -2$, find the center and radius by completing the square.



- Sketch the result of #5.

Given $6X^2 + 4Y^2 = 24$:

- Find the coordinates of the center.
- Find the coordinates of the X extremity.
- Find the coordinates of the Y extremity.



- Sketch the result.

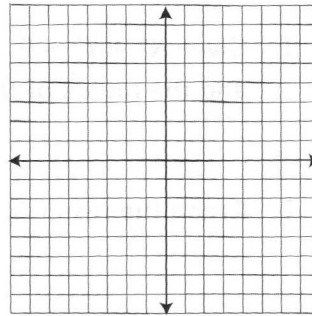
Given points A (5, -6), B (2, 3), and C (-2, -4):

11. Compute the distance between points B and C.

12. Compute the distance between points A and B.

13. Find the midpoint between points B and C.

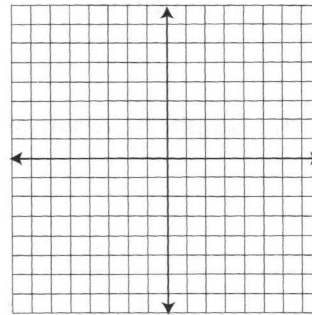
14. Find the midpoint between points A and C.



Given line $3Y = X - 6$:

15. Find the slope/intercept formula of the line parallel to the given line through the point (-3, 4).

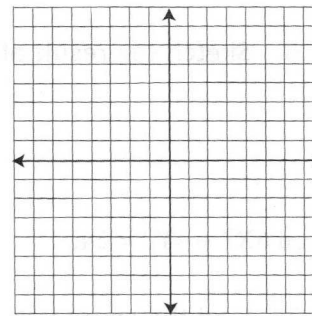
16. Graph the line.



Given line $5Y = -X - 5$:

17. Find the slope/intercept formula of the line perpendicular to the given line through the point (-1, -3).

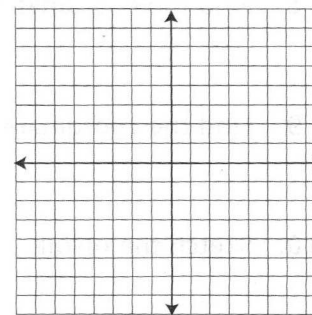
18. Graph the line.



Given $2Y - 2X \geq 3$:

19. Graph the line. Plot two points and test them.

20. Shade the graph, and make the line dotted or solid.

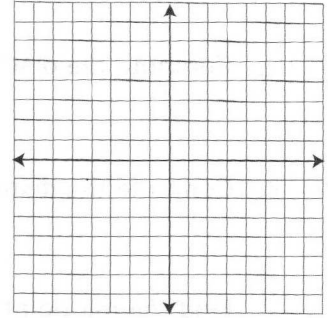


SYSTEMATIC REVIEW

23D

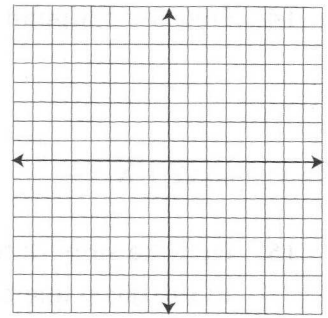
Follow the directions.

- Given $(X - 2)^2 + (Y + 3)^2 = 36$, find the coordinates of the center and the radius of the circle.



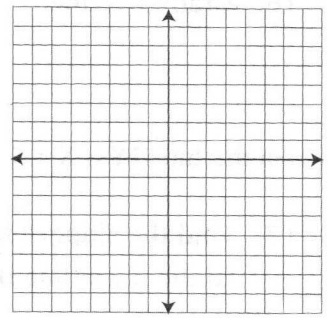
- Graph the result of #1.

- Given the center $(-2, 0)$ and radius (5) , create the equation of the circle.



- Graph the result of #3.

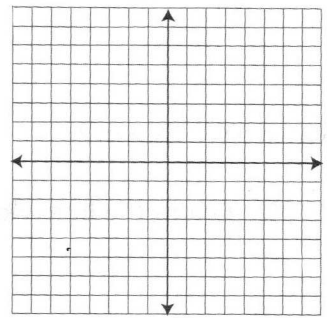
- Given $X^2 - 6X + Y^2 = 16$, find the center and the radius by completing the square.



- Sketch the result of #5.

Given $\frac{(X+3)^2}{4} + \frac{(Y-1)^2}{16} = 1$:

- Find the coordinates of the center.
- Find the coordinates of the X extremity.
- Find the coordinates of the Y extremity.



- Sketch the result.

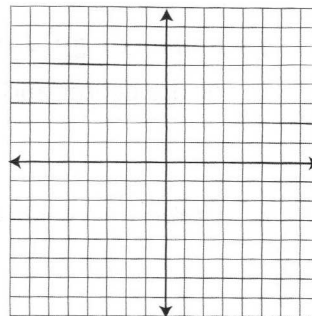
Given points A (6, 1), B (-2, -1), and C (-4, 4):

11. Compute the distance between points A and B.

12. Compute the distance between points A and C.

13. Find the midpoint between points B and C.

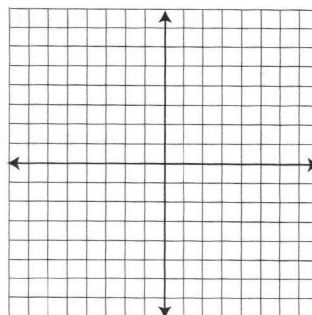
14. Find the midpoint between points A and C.



Given line $4Y + X = -2$:

15. Find the slope/intercept formula of the line parallel to the given line through the point (0, -4).

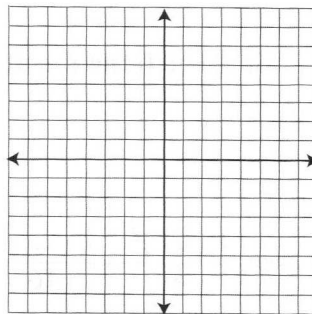
16. Graph the line.



Given this line: $2Y = X + 5$

17. Find the slope/intercept formula of the line perpendicular to the given line through the point (2, 3).

18. Graph the line.



Given $5Y < 2X + 5/2$:

19. Graph the line. Plot two points and test them.

20. Shade the graph and make the line dotted or solid.

