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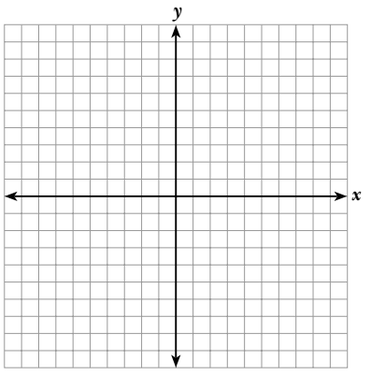
NAME _____ DATE _____

Module Test B

Module 7



Graph and label each point on the coordinate plane.

1. (5, –1)

2. (–6, –4)

3. (1, –4)

Name the quadrant in which each point lies.

4. (8, 5) _____

5. (4, –9) _____

Write an ordered pair solution.

6. Find the solution to $-2x + 4y = 12$ when $y = -4$.

_____

7. Find the solution to $-y = -2x$ when $x = \frac{3}{4}$.

_____

Find three solutions to each equation.

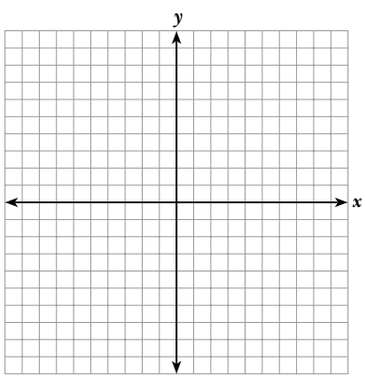
8. $x = 8$ _____ _____ _____

9. $3x + y = 6$ _____ _____ _____

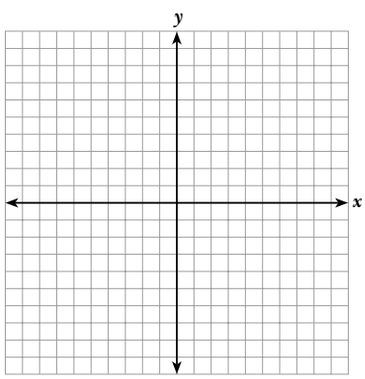
10. $x = -\frac{y}{4}$ _____ _____ _____

Graph each of the following on the coordinate plane.

11. $x = -4$



12. $y = -\frac{x}{2}$



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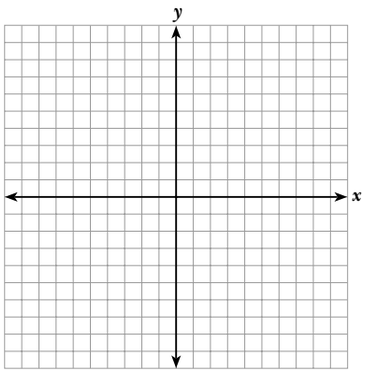
Find 3 solutions to each equation and enter them in the table. Then, graph each equation on the coordinate plane.

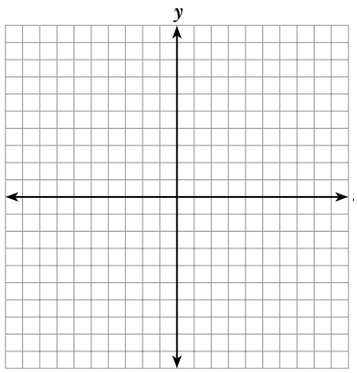
13. $y + 2x = 8$

x	y



14. $y = 3x + 4$

x	y

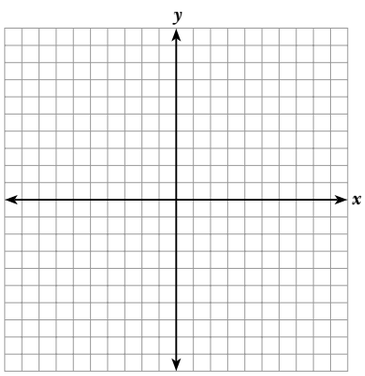


Use the intercept method to graph each equation on the coordinate plane.

15. $3x = y - 6$

x-intercept = _____

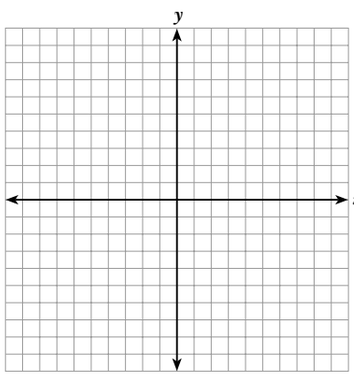
y-intercept = _____



16. $2x - 3y = 12$

x-intercept = _____

y-intercept = _____



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Find the slope of each line.

17. $y = \frac{2}{5}x + 3$

_____

18. $y = -\frac{x}{2}$

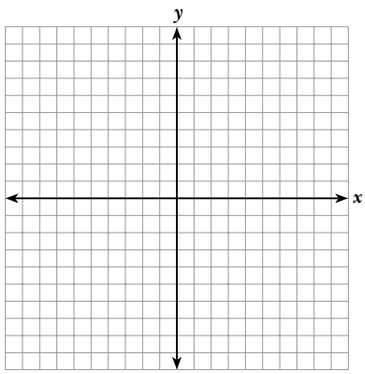
_____

Use the slope-intercept method to graph each equation on the coordinate plane.

19. $y = 4x + 3$

slope = _____

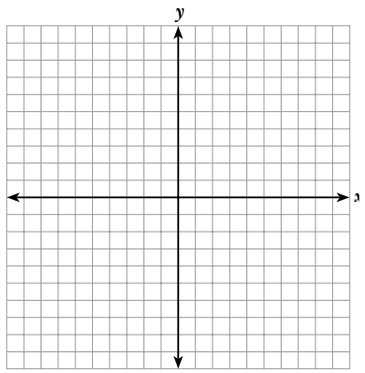
y-intercept = _____



20. $y = -\frac{2}{3x}$

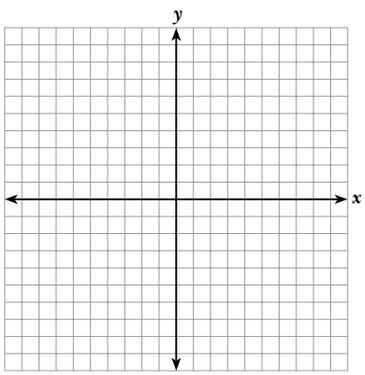
slope = _____

y-intercept = _____

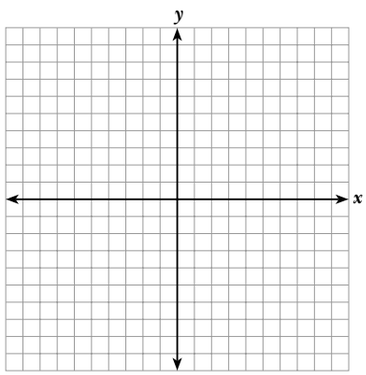


Graph each solution set on the coordinate plane.

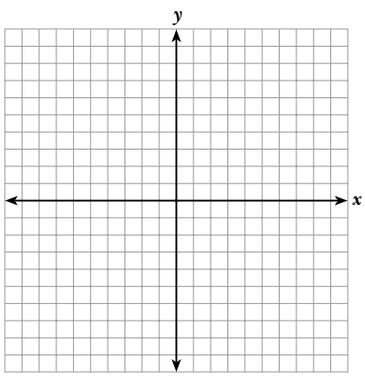
21. $2x - y = 6$



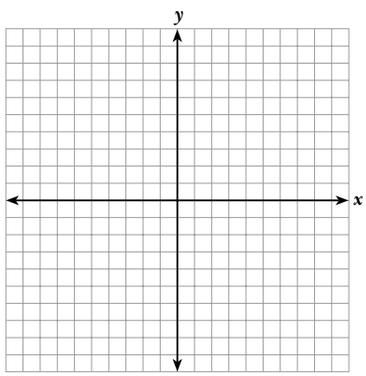
22. $y = \frac{x}{4} + 3$



23. $5x - y \geq 2$



24. $y > -2$



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Solve each of the following word problems. Show all work.

25. Tim and his friends spent $24.75 during the football game at the concession stand on soft pretzels and bottled water. A bottle of water cost $1.25, and a soft pretzel cost $3.50. If Tim and his friends bought three bottles of water, how many pretzels did they buy?

26. Lisa is competing in a track meet. She earns five points for each first place finish and three points for each second place finish. She needs at least 19 points to win the meet. Write an inequality to model the situation.

27. Ferd sponsored a dance. He charged $3 per person or $5 per couple. He made a total of $44. Find all the possible combinations of singles and couples that could have attended the dance.

Circle your answer.

28. Which one of the points listed below is on the line represented by the equation $3x - 2y = 6$?

a. $\left(1, -\frac{3}{2}\right)$ **b.** (0, 2) **c.** (–2, 0) **d.** (0, 3)

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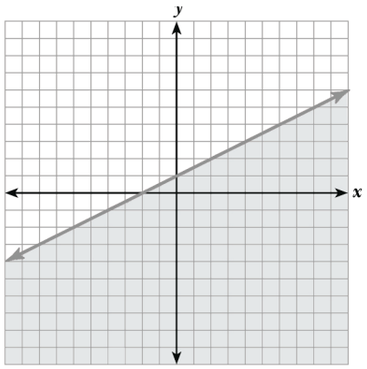
29. Which inequality represents the graph at the right?



a. $y > 2x + 1$
b. $y < 2x + 1$
c. $y > x + 1$
d. $y < x + 1$

Answer each of the following questions in the space provided. Show all work.

30. Dan is buying a car from his sister. She requires that Dan give her a $1,000 down payment. The remainder of the cost of the car is to be paid to her in 12 equal payments.

a. Write an equation to show Dan's total cost (*c*) if he pays (*d*) dollars in each payment.

_____

b. Use this equation to find the monthly payment for Dan if the cost of the car is $4,500.

_____

31. Explain how to graph the inequality $y \geq x + 3$.

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