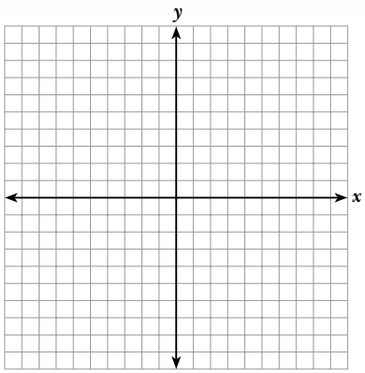
NAME _____ DATE _____

Module Test A

Module 7



Graph and label each point on the coordinate plane.

1. (3, 4)

2. (–2, 6)

3. (–6, –4)

Name the quadrant in which each point lies.

4. (–10, 2) _____

5. (–3, –1) _____

Write an ordered pair solution.

6. Find the solution to $x + 3y = 8$ when $x = 2$.

_____

7. Find the solution to $y = \frac{x}{3}$ when $y = 14$.

_____

Find three solutions to each equation.

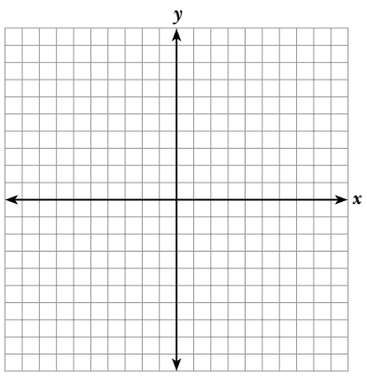
8. $y = -2$ _____ _____ _____

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

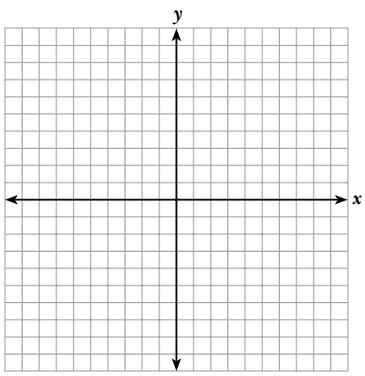
10. $-x = 4y$ _____ _____ _____

Graph each of the following on the coordinate plane.

11. $-x + 4y = 8$



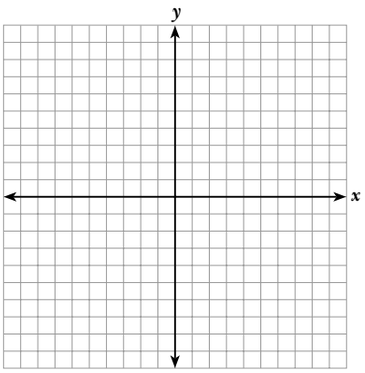
12. $x = -3$



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

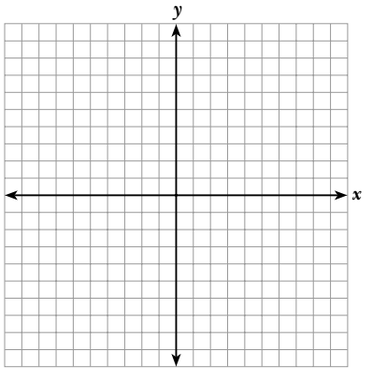
13. $x = -3y$

x	y



14. $y - 2x = 8$

x	y

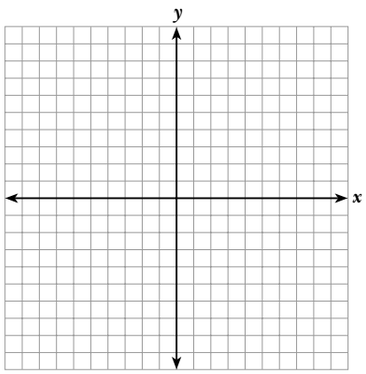


Use the intercept method to graph each equation on the coordinate plane.

15. $2x - y = 6$

x-intercept = _____

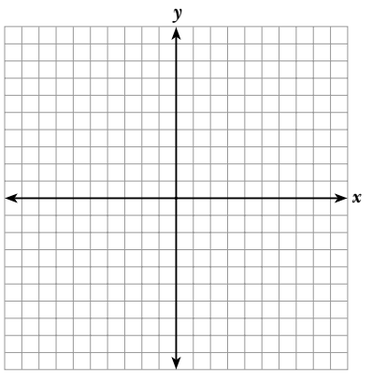
y-intercept = _____



16. $3x - 2y = 9$

x-intercept = _____

y-intercept = _____



Find the slope of each line.

17. $y = -3x + 4$

_____

18. $x + 6y = 18$

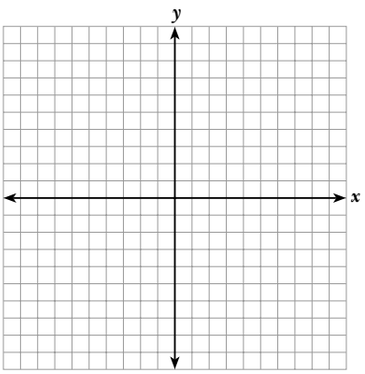
_____

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

19. $y = -2x - 1$

slope = _____

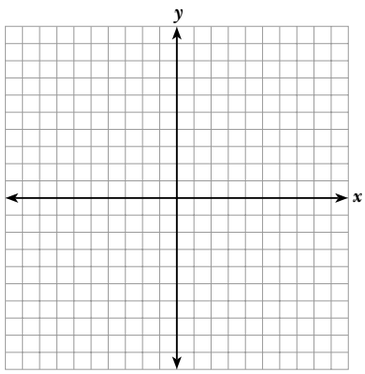
y-intercept = _____



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

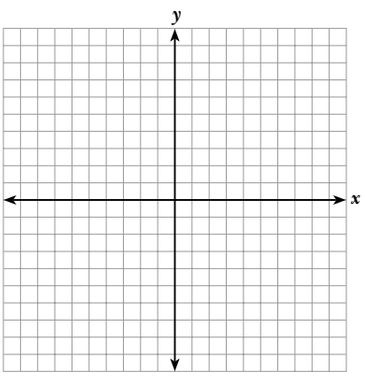
slope = _____

y-intercept = _____

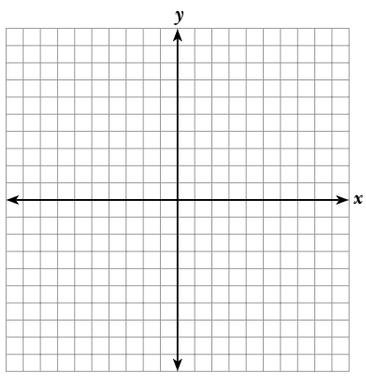


Graph each solution set on the coordinate plane.

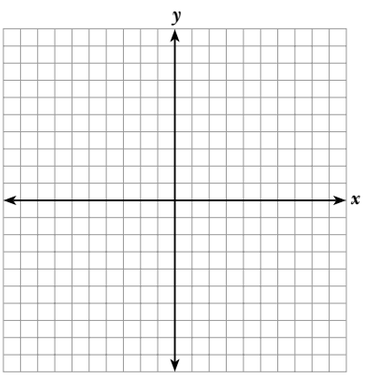
21. $x = 2y - 4$



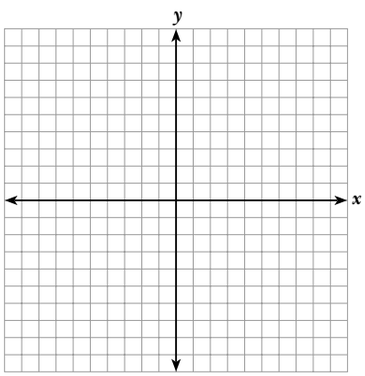
22. $y = 2x + 3$



23. $x + 6y \geq 12$



24. $y > -3$



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

26. Mandy spent $3.50 during the ballgame at the concession stand on sodas and popcorn. A soda cost $0.75. Popcorn cost $0.50 a bag. If Mandy bought two sodas, how many bags of popcorn did she buy?

27. Mark's Print Shop charges $10 for designing an invitation and $0.05 for each copy of the invitation.

a. Write an equation that describes the situation.

b. How much does the print shop charge to design an invitation and print 100 copies of it?

28. There is a one-day-only sale at Joan's favorite store. All jeans are $40 a pair, and all shirts are $10 each. Find all possible combinations of shirts and jeans that Joan can buy if she spends $130.

jeans	shirts

Circle your answers.

29. The rate of a red car, in miles per hour, is five less than twice the rate of a blue car. If x is the rate of the blue car in miles per hour, which one of the following expressions correctly represents the rate of the red car?

a. $5x + 2$ **b.** $5x - 2$ **c.** $2x - 5$ **d.** $5 - 2x$

30. The graph of the inequality $x < 3y + 2$ is:

a. a solid line with shading above
b. a dashed line with shading above
c. a solid line with shading below
d. a dashed line with shading below

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

31. Margie wants to purchase a new computer. There is a $100 down payment. The remainder of the cost is to be paid monthly in 12 equal payments.

a. Write an equation to show Margie's total cost *(c)* if she pays *(d)* dollars a month.

_____

b. Use the equation to find the monthly payment for Margie if the cost of the computer is $1,500.

_____

32. Explain how to use the slope-intercept method to graph the equation $y = 2x + 3$.