

NAME _____

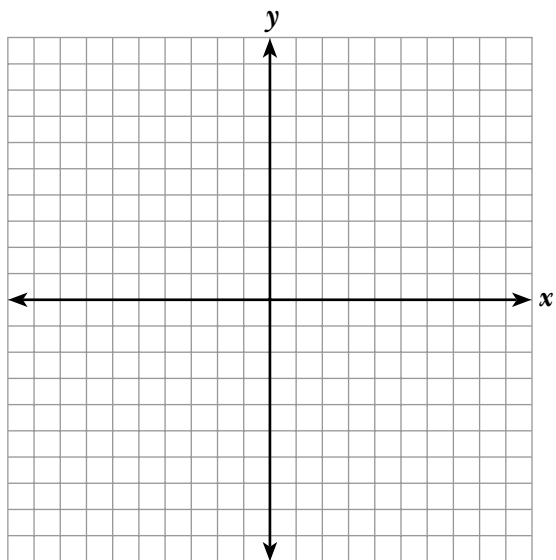
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Module 7 Solving Linear Equations and Inequalities of Two Variables
Lesson 1 Defining Linear Equations of Two Variables and Their Solutions

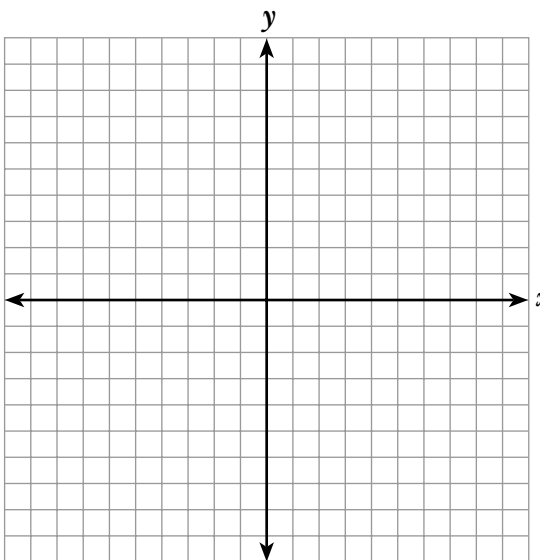
independent practice

Graph the following ordered pairs.

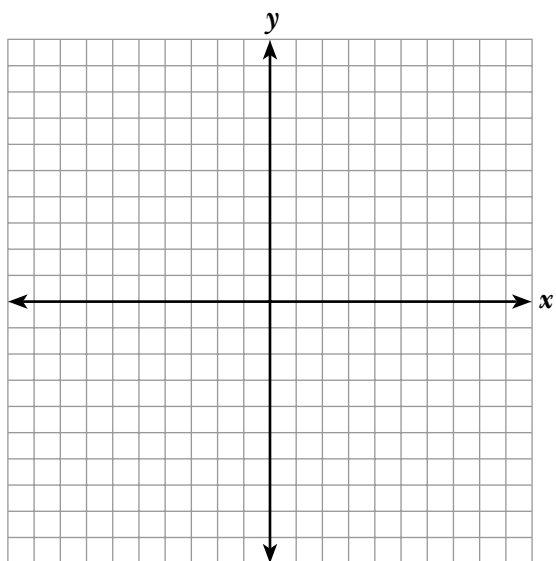
1. $(2, 0)$, $(-1, -5)$, $(2, -3)$



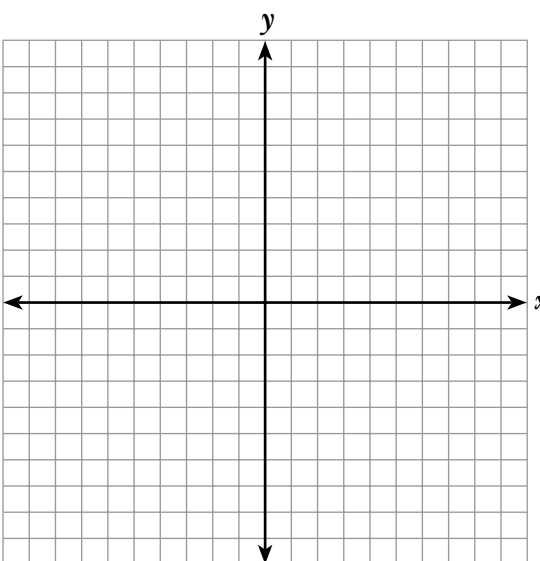
2. $(1, 6)$, $(2, -2)$, $(4, 0)$



3. $(0, 3)$, $(-9, -1)$, $(3, -1)$



4. $(-3, 1)$, $(3, 4)$, $(3, -8)$

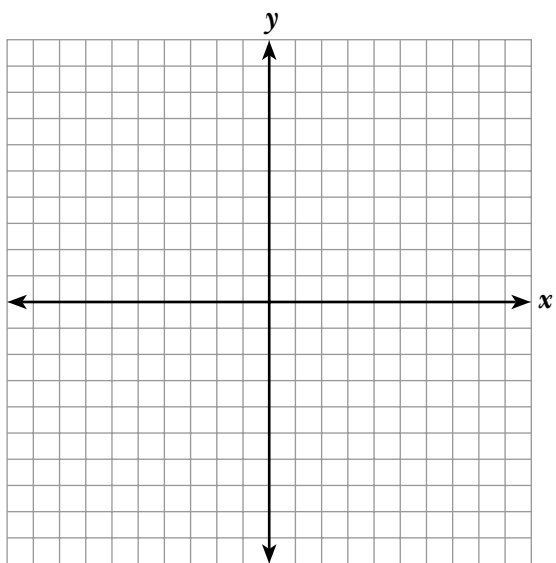


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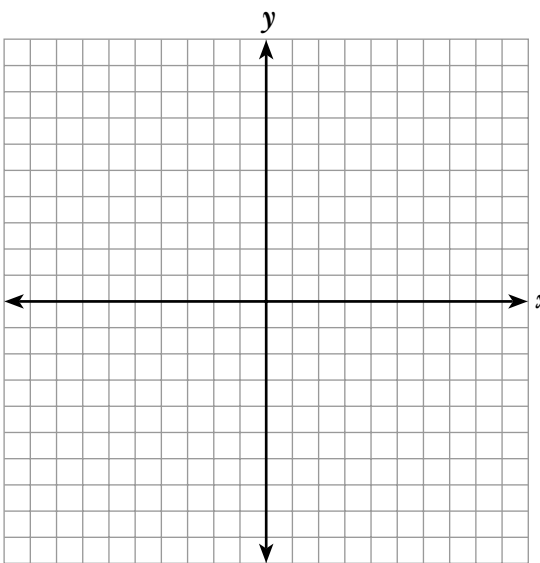


Graph the following equations.

5. $x = -4$



6. $y = 2$



Find the solution to each equation for the given value of the variable.

7. $4x + 2y = 22$ when $x = 2$

8. $y - 3x = 14$ when $y = 2$

9. $2x + 8y = 2$ when $y = -3$

10. $3x - y = -1$ when $x = -2$

Find three solutions to each of the following linear equations.

11. $6x - y = 6$

12. $y - 3x = 1$

13. $x + y = 10$

14. $3x - 5y = 15$

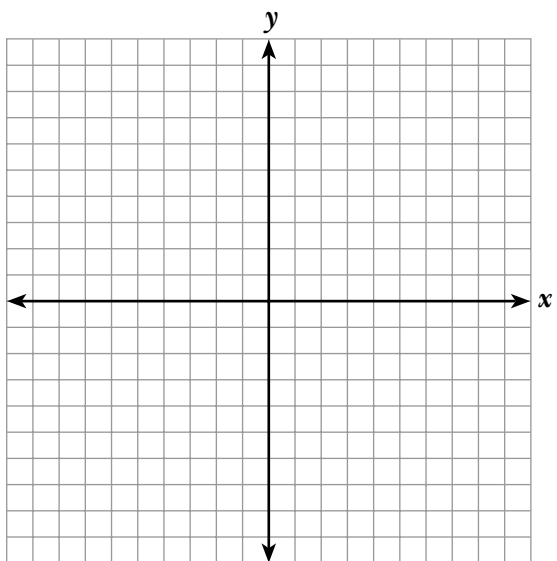
15. $y - 2x = -4$

16. $5x + 5y = 15$

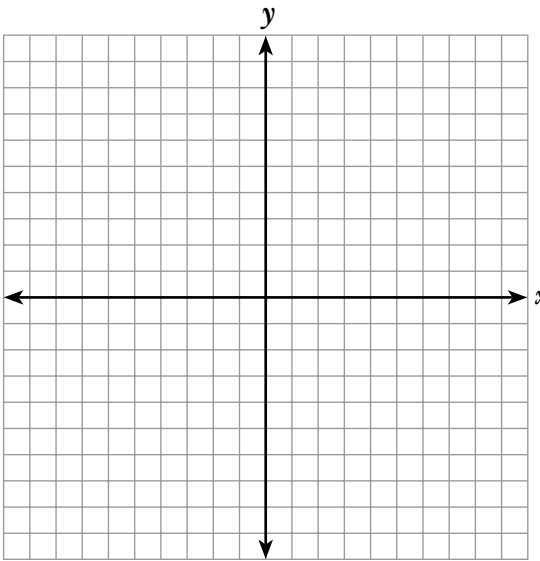


Find the solutions to the equations for the given value of the variables.
Then graph those solutions.

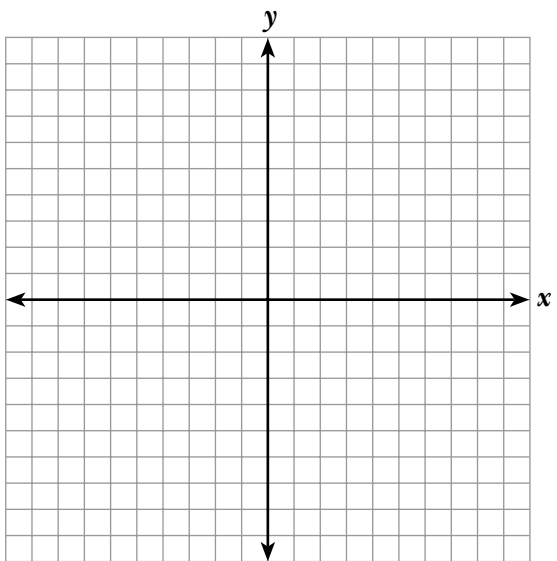
17. $2x - y = 3$
when $y = -3$ and when $x = 5$



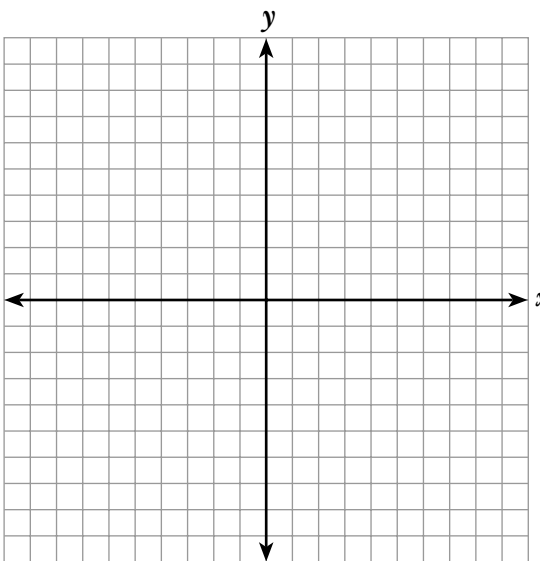
18. $4y + 3x = -1$
when $x = 5$ and when $y = 2$



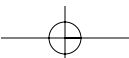
19. $7x + y = 11$
when $x = 1$ and when $y = -3$



20. $2x - 5y = 3$
when $y = -3$ and when $x = -1$



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Journal

1. Explain how a letter-number can be used to find a location on a map.
2. Explain why a linear equation of two variables has an infinite number of solutions.
3. Explain how to graph the point $(-2\frac{1}{3}, 5\frac{5}{6})$.
4. Explain how to graph the solution set of the equation $x + y = 8$.
5. Explain why the graph of the equation $y = -4$ is a horizontal line.

Cumulative Review

Solve for x .

1. $x^2 = 4$

2. $x^2 + 3 = 4$

3. $x^3 - 4 = 4$

4. $x + 4 = 13x$

5. $x^2 + 30 = 2x^2 + 5$

6. $2^2 - x^3 = -23$

7. $14 + 4x = 22$

8. $\sqrt[3]{x} = 5$

9. $x^4 - 7 = -6$

10. $x + 4 = 4x - 11$

