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NAME

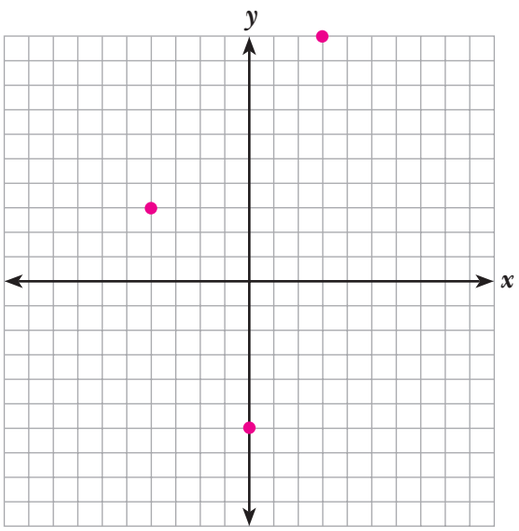
Module 7 Solving Linear Equations and Inequalities of Two Variables

Lesson 1 Defining Linear Equations of Two Variables and Their Solutions

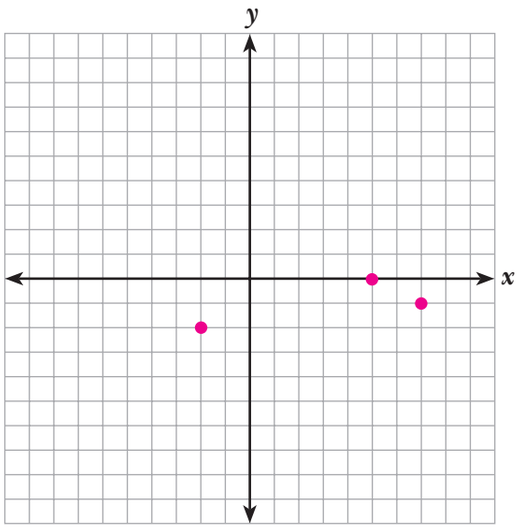
additional practice

Graph the following ordered pairs.

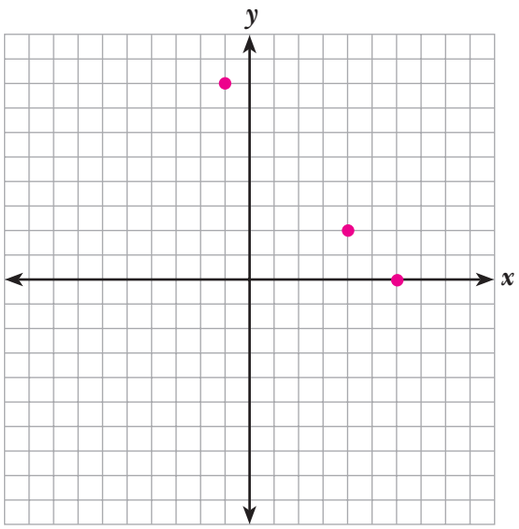
1. (–4, 3), (3, 10), (0, –6)



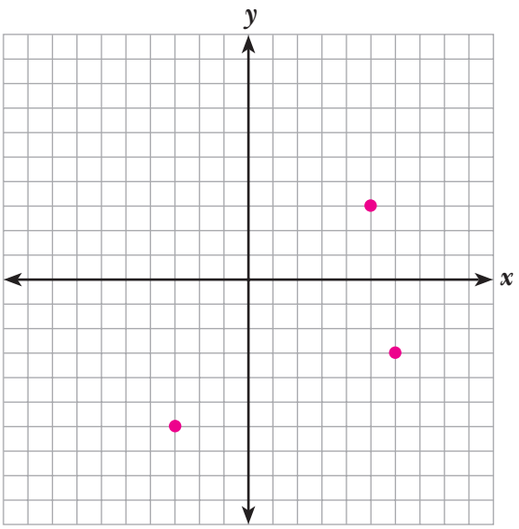
2. (5, 0), (–2, –2), (7, –1)



3. (6, 0), (–1, 8), (4, 2)



4. (6, –3), (5, 3), (–3, –6)



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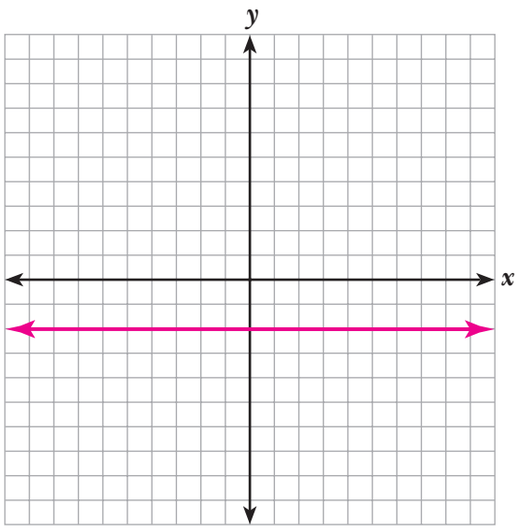
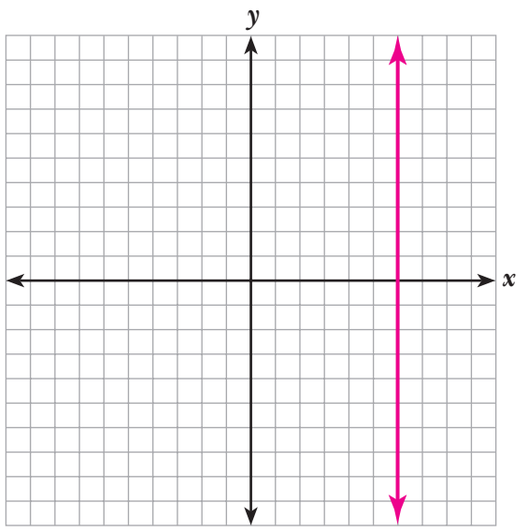
Graph the following equations.

5. $y = -2$



6. $x = 6$



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

7. $6x + 3y = 15$ when $x = 2$

(2, 1)

8. $14x - 3y = 10$ when $y = 6$

(2, 6)

9. $3x + 2y + 10 = 14$ when $x = -2$

(–2, 5)

10. $x + 7y = 35$ when $x = 14$

(14, 3)

Find three solutions to each of the following linear equations. **Possible answers are given.**

11. $7x - y = 21$

(0, –21), (3, 0), (2, –7)

12. $x + 3y = 7$

(0, $2\frac{1}{3}$), (7, 0), (4, 1)

13. $y - 3x = 3$

(0, 3), (–1, 0), (1, 6)

14. $4x + 2y = 8$

(0, 4), (2, 0), (1, 2)

15. $3y - 2x = 12$

(0, 4), (–6, 0), (–3, 2)

16. $9x + 2y = 18$

(0, 9), (2, 0), (4, –9)

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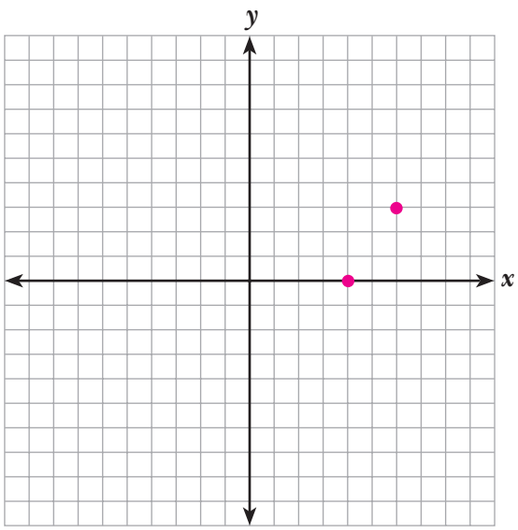
Find the solutions to the equations for the given value of the variables. Then, graph those solutions.

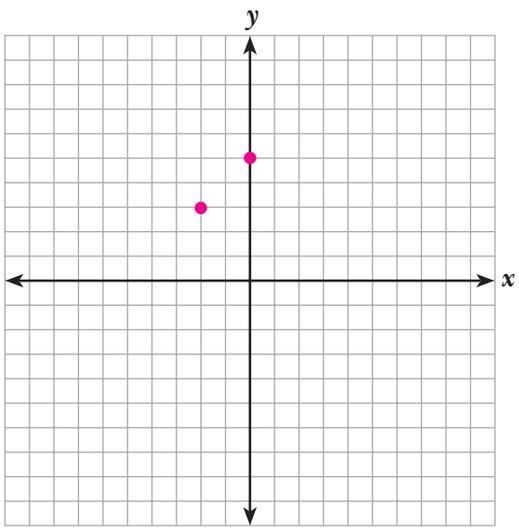
17. $3x - 2y = 12$
when $x = 4$ and when $y = 3$

(4, 0) and (6, 3)



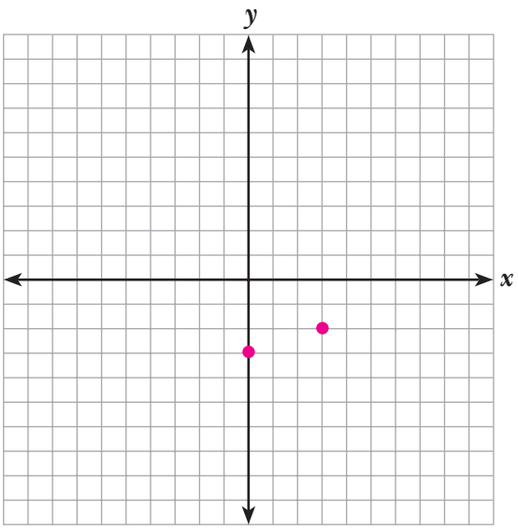
18. $y - x = 5$
when $x = -2$ and when $y = 5$

(–2, 3) and (0, 5)



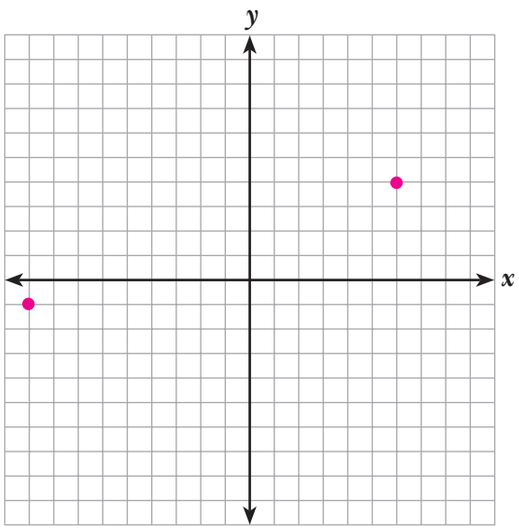
19. $x - 3y = 9$
when $y = -3$ and when $x = 3$

(0, –3) and (3, –2)



20. $3y - x = 6$
when $x = 6$ and when $y = -1$

(6, 4) and (–9, –1)



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