

Practice 5-3

Standard Form

Find the x - and y -intercepts of each equation.

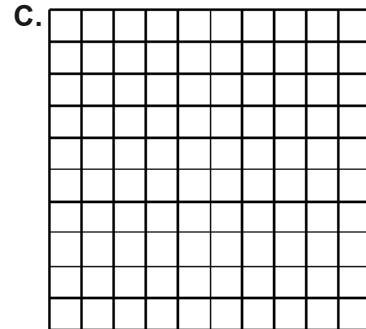
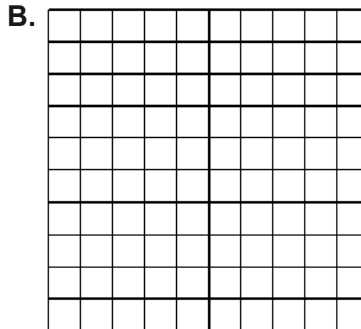
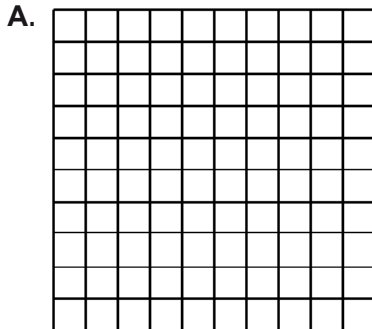
1. $x + y = 3$ 2. $x + 3y = -3$ 3. $-2x + 3y = 6$ 4. $5x - 4y = -20$
 5. $3x + y = 12$ 6. $7x + 3y = 21$ 7. $y = -2.5$ 8. $2x - 3y = 4$

Match each equation with its graph.

9. $3x + y = 12$

10. $-3x + 4y = 12$

11. $3x + 4y = 12$



Graph each equation using x - and y -intercepts.

12. $3x + y = 3$ 13. $-3x + 5y = 15$ 14. $2x + y = 3$ 15. $8x - 3y = 24$
 16. $3x - 5y = 15$ 17. $x + 4y = 4$ 18. $x = -3.5$ 19. $y = 6$

For each equation, tell whether its graph is a horizontal or a vertical line.

20. $x = -2$ 21. $y = 4$ 22. $y = -1.5$ 23. $x = 2\frac{1}{2}$

Write each equation in standard form using integers.

24. $y = 4x - 11$ 25. $y = 2x - 6$ 26. $y = -2x - 3$ 27. $y = 5x - 32$
 28. $y = \frac{2}{3}x - \frac{25}{3}$ 29. $y = 43 - 4x$ 30. $y = -\frac{4}{5}x + \frac{6}{5}$ 31. $y = -\frac{x}{5}$

32. The drama club sells 200 lb of fruit to raise money. The fruit is sold in 5-lb bags and 10-lb bags.

- Write an equation to find the number of each type of bag that the club should sell.
- Graph your equation.
- Use your graph to find two different combinations of types of bags.

33. The student council is sponsoring a carnival to raise money. Tickets cost \$5 for adults and \$3 for students. The student council wants to raise \$450.

- Write an equation to find the number of each type of ticket they should sell.
- Graph your equation.
- Use your graph to find two different combinations of tickets sold.

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