

Practice 6-3

Standard Form

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Graph each equation using x - and y -intercepts.

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|--------------------|---------------------|-------------------|---------------------|
| 1. $x + y = 3$ | 2. $x + 3y = -3$ | 3. $-2x + 3y = 6$ | 4. $5x - 4y = -20$ |
| 5. $3x + 4y = 12$ | 6. $7x + 3y = 21$ | 7. $y = -2.5$ | 8. $2x - 3y = 4$ |
| 9. $x = 3$ | 10. $3x - 2y = -6$ | 11. $5x + 2y = 5$ | 12. $-7x + 2y = 14$ |
| 13. $3x + y = 3$ | 14. $-3x + 5y = 15$ | 15. $2x + y = 3$ | 16. $8x - 3y = 24$ |
| 17. $3x - 5y = 15$ | 18. $x + 4y = 4$ | 19. $x = -3.5$ | 20. $y = 6$ |

Write each equation in standard form using integers.

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|---------------------------------------|---------------------------------------|---------------------------------------|------------------------|
| 21. $y = 4x - 11$ | 22. $y = 2x - 6$ | 23. $y = -2x - 3$ | 24. $y = 5x - 32$ |
| 25. $y = \frac{2}{3}x - \frac{25}{3}$ | 26. $y = 43 - 4x$ | 27. $y = -\frac{4}{5}x + \frac{6}{5}$ | 28. $y = -\frac{x}{5}$ |
| 29. $y = \frac{5}{2}x - 22$ | 30. $y = \frac{7}{3}x + \frac{25}{3}$ | 31. $y = -\frac{x}{3} + \frac{2}{3}$ | 32. $y = -6x - 38$ |

33. 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.

34. 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.

35. Anna goes to a store to buy \$70 worth of flour and sugar for her bakery. A bag of flour costs \$5, and a bag of sugar costs \$7.

- Write an equation to find the number of bags of each type Anna can buy.
- Graph your equation.

36. You have \$50 to spend on cold cuts for a party. Ham costs \$5.99/lb, and turkey costs \$4.99/lb. Write an equation in standard form to relate the number of pounds of each kind of meat you could buy.