

Practice B

For use with pages 218–224

Find the x -intercept of the graph of the equation.

1. $x + 2y = 5$

2. $3x - y = 6$

3. $5x + 5y = -30$

4. $6x - 12y = 36$

5. $1.5x - 3y = -6$

6. $0.8x + 3y = 2.4$

Find the y -intercept of the graph of the equation.

7. $y = -3x - 7$

8. $y = \frac{1}{2}x + 8$

9. $y = x - \frac{2}{3}$

10. $-3x + 2y = 18$

11. $4x + 2y = -16$

12. $5x - 1.2y = 3.6$

Sketch the line that has the given intercepts.

13. x -intercept: 3
 y -intercept: 2

14. x -intercept: 4
 y -intercept: -1

15. x -intercept: -2
 y -intercept: 5

16. x -intercept: -6
 y -intercept: -5

17. x -intercept: $\frac{1}{2}$
 y -intercept: -4

18. x -intercept: 10
 y -intercept: -6.5

Find the x -intercept and the y -intercept of the line. Graph the equation. Label the points where the line crosses the axes.

19. $y = x + 6$

20. $y = x - 9$

21. $y = 1 - x$

22. $y = -2 - x$

23. $y = \frac{1}{2}x - 4$

24. $y = -0.5x + 5$

25. $-2x - 4y = 20$

26. $-4x + 8y = -16$

27. $0.3x - 1.3y = 3.9$

Ticket Sales Use the following information.

You sold tickets to the school play. Advanced tickets were \$4. Tickets bought at the door were \$5.50. Total ticket sales were \$440. Let x represent the number of advanced tickets sold and y represent the number of tickets sold at the door.

28. Write an equation to represent the number of tickets sold.
29. Graph the equation from Exercise 28.
30. What are three possible numbers of advanced tickets sold and tickets sold at the door?

Stacking Crates Use the following information.

As a part of a summer job, you stack crates. The crates have the same length and width, but have heights of 1 or 2 feet. Using a fork lift, you can stack the crates 8 feet high.

31. Make a graph showing the possible number of each type of crate in one stack.
32. If you stacked 3 of the 2-foot crates, how many of the 1-foot crates were in the stack?

