Evaluate the expression.

1. $2^5 \cdot 2 - 4 \div 2$ *(p. 8)*

2. $24 \div 6 + (9 - 6)$ *(p. 8)*

3. $5[(6 - 2)^2 - 5]$ *(p. 8)*

4. $\sqrt{144}$ *(p. 110)*

5. $-\sqrt{2500}$ *(p. 110)*

6. $\pm\sqrt{400}$ *(p. 110)*

Check whether the given number is a solution of the equation or inequality. *(p. 21)*

7. $7 + 3x = 16$; 3

8. $21y + 1 = 1$; 0

9. $20 - 12h = 12$; 1

10. $g - 3 > 2$; 5

11. $10 \geq 4 - x$; 0

12. $30 - 4p \geq 5$; 6

Simplify the expression.

13. $5(y - 1) + 4$ *(p. 96)*

14. $12w + (w - 2)3$ *(p. 96)*

15. $(g - 1)(-4) + 3g$ *(p. 96)*

16. $\frac{10h - 25}{5}$ *(p. 103)*

17. $\frac{21 - 4x}{-7}$ *(p. 103)*

18. $\frac{32 - 20m}{2}$ *(p. 103)*

Solve the equation.

19. $x - 8 = 21$ *(p. 134)*

20. $-1 = x + 3$ *(p. 134)*

21. $6x = -42$ *(p. 134)*

22. $\frac{x}{3} = 8$ *(p. 134)*

23. $5 - 2x = 11$ *(p. 141)*

24. $\frac{2}{3}x - 3 = 17$ *(p. 141)*

25. $3(x - 2) = -15$ *(p. 148)*

26. $3(5x - 7) = 5x - 1$ *(p. 154)*

27. $-7(2x - 10) = 4x - 10$ *(p. 154)*

Graph the equation.

28. $x + 2y = -8$ *(p. 225)*

29. $-2x + 5y = -10$ *(p. 225)*

30. $3x - 4y = 12$ *(p. 225)*

31. $y = 3x - 7$ *(p. 244)*

32. $y = x + 6$ *(p. 244)*

33. $y = -\frac{1}{3}x$ *(p. 253)*

Write an equation of the line in slope-intercept form with the given slope and *y*-intercept. *(p. 283)*

34. slope: 5
   y-intercept: -1

35. slope: -1
   y-intercept: 3

36. slope: -7
   y-intercept: 0

Write an equation in point-slope form of the line that passes through the given points. *(p. 302)*

37. $(1, -10), (-5, 2)$

38. $(4, 7), (-4, 3)$

39. $(-9, -2), (-6, 8)$

40. $(-1, 1), (1, -3)$

41. $(2, 4), (8, 2)$

42. $(-6, 1), (3, -5)$

Solve the inequality. Then graph your solution.

43. $x - 9 < -13$ *(p. 356)*

44. $8 \leq x + 7$ *(p. 356)*

45. $8x \geq 56$ *(p. 363)*

46. $\frac{x}{-4} > 7$ *(p. 363)*

47. $1 - 2x < 11$ *(p. 369)*

48. $8 > -3x - 1$ *(p. 369)*

49. $4x - 10 \leq 7x + 8$ *(p. 369)*

50. $7x - 5 < 6x - 4$ *(p. 369)*

51. $-4 < 3x - 1 < 5$ *(p. 380)*

52. $3 \leq 9 - 2x \leq 15$ *(p. 380)*

53. $|3x| < 15$ *(p. 398)*

54. $|4x - 2| \geq 18$ *(p. 398)*