Evaluate each expression for x = 5.

3.
$$\frac{5}{3}(3x-6) - (6-4x)$$

4. $3(x^2-4) + 7(x-2)$
5. $x - 2x + 3x - 4x + 5x$

Simplify each expression.

6.
$$a^2 + a + a^2$$

7. $2x + 3y - 5x + 2y$
8. $5(a - 2b) - 3(a - 2b)$
9. $3[2(x - 3) + 2] + 5(x - 3)$

Solve each equation.

10. 4y - 6 = 2y + 8 **11.** 3(2z + 1) = 35 **12.** 5(3w - 2) - 7 = 23 **13.** t - 2(3 - 2t) = 2t + 9 **14.** 5(s - 12) - 24 = 3(s + 2)**15.** 7(3 - 0.5k) = 3k - 5

Solve each equation for x. State any restrictions.

16. $ax - bx = 2a$	17. $\frac{x}{c} + c = 4c$
18. $\frac{x-5}{a} + 1 = b$	19. $ax + 2 = bx + c$

21. Savings Briana and her sister Molly both want to buy the same model bicycle. Briana needs \$73 more before she can afford the bike. Molly needs \$65 more. If they combine their money, they will have just enough to buy one bicycle that they could share. What is the cost of the bicycle?

Solve each inequality or equation. Graph the solution.

23. $3x + 17 \ge 5$ **24.** 25 - 2x < 11 **25.** 7t > 4t + 3(1 - t) **26.** $\frac{3}{8}x < -6$ or 5x > 2 **27.** 2 < 10 - 4d < 6 **28.** 4 - x = |2 - 3x| **29.** |4x + 4| = 8x + 16 **30.** $|5 - p| \le 2$ **31.** 5|3w + 2| - 3 > 7