Algebra 2 Quiz 1.3-1.4 Review

Solve the equation.

1. $6(x - 0.8) - 0.2(5x - 4) = 6$

Solve the equation or formula for the indicated variable.

2. $T = \dfrac{2U}{E}$, for U

3. $ax - bx = 2a$, for x

4. $S = 2\pi rh$

Solve the inequality. Graph the solution set. State the interval notation.

5. $2 + 2k \le 8$

6. $-3k + 4 \ge 1$

7. $4(3b - 5) < -31 + 12b$

8. $14 + 8b \ge 4(2b + 2)$

Solve the compound inequality. Graph the solution set. State the interval notation.

9. $7x + 12 \ge -16$ and $3x - 4 \le 5$

10. $10x - 1 < -41$ or $4x + 5 > 1$

11. The sides of a rectangle are in a ratio of 5:3. The perimeter is 32 cm. Find the lengths of the sides.