5 Chapter Test

Check It Out
Test Practice
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Solve the system of linear equations by graphing.

1. $y = 4 - x$
$y = x - 4$

2. $y = \frac{1}{2}x + 10$
$y = 4x - 4$

3. $y + x = 0$
$3y + 6x = -9$

Solve the system of linear equations by substitution. Check your solution.

4. $-3x + y = 2$
$-x + y - 4 = 0$

5. $x + y = 20$
$y = 2x - 1$

6. $x - y = 3$
$x + 2y = -6$

Solve the system of linear equations by elimination. Check your solution.

7. $2x + y = 3$
$x - y = 3$

8. $x + y = 12$
$3x = 2y + 6$

9. $-2x + y + 3 = 0$
$3x + 4y = -1$

Without graphing, determine whether the system of linear equations has *one solution*, *infinitely many solutions*, or *no solution*. Explain your reasoning.

10. $y = 4x + 8$
$y = 5x + 1$

11. $2y = 16x - 2$
$y = 8x - 1$

12. $y = -3x + 2$
$6x + 2y = 10$

Use a graph to solve the equation. Check your solution.

13. $\frac{1}{4}x - 4 = \frac{3}{4}x + 2$

14. $8x - 14 = -2x - 4$

15. FRUIT The price of 2 pears and 6 apples is \$14. The price of 3 pears and 9 apples is \$21. Can you determine the unit prices for pears and apples? Explain.

16. BOUQUET A bouquet of lilies and tulips has 12 flowers. Lilies cost \$3 each, and tulips cost \$2 each. The bouquet costs \$32. Write and solve a system of linear equations to find the number of lilies and tulips in the bouquet.

17. DINNER How much does it cost for 2 specials and 2 glasses of milk?