

Paper Practice 7.2

Substitution

Use substitution to solve each system of equations.

1. $y = 4x - 1$
 $3x + 2y = 20$

2. $y + x = 4$
 $5x - 7y = 8$

3. $y = 2x + 7$
 $3x - y = -8$

4. $x - 3y = 5$
 $2x + y = -18$

5. $2x = 5 - 3y$
 $4x + 6y = 8$

6. $2x + 5y = 1$
 $x - 17 = 3y$

7. $4x + 8y = 16$
 $4 - 2y = x$

8. $4x - y = 3$
 $6y = 4 + 2x$

9. $5x + 4y = 5$
 $-x + 2y = 13$

NAME _____ DATE _____ PERIOD _____

10. $5x - y = 3$
 $2y + 6 = 10x$

11. $4y + 12 = 8x$
 $y = 2x - 4$

12. $4x + 3y = 20$
 $25 - y = 5x$

13. $y = 2x - 22$
 $5x + 4y = 3$

14. $4x + 2y = -18$
 $-x + 5y = -12$

15. $4x - y = 7$
 $2y = 8x - 7$

- 16. GAMES** Darius is playing a bowling game where he rolls balls into a 10-point hole or a 25-point hole. He rolls a total of 11 balls, and his score is 215 points. Write a system of equations to represent the information and use substitution to determine how many balls Darius rolled into each hole.