

Name: _____

Date: _____

Solve the following systems by substitution:

$$\begin{aligned} 1. \quad & y = 6x \\ & 2x + 3y = -20 \end{aligned}$$

$$\begin{aligned} 2. \quad & x = 2y + 7 \\ & x = y + 4 \end{aligned}$$

$$\begin{aligned} 3. \quad & y = 2x + 6 \\ & 2x - y = 2 \end{aligned}$$

$$\begin{aligned} 4. \quad & x + 2y = 13 \\ & -2x - 3y = -18 \end{aligned}$$

$$\begin{aligned} 5. \quad & x - 5y = 36 \\ & 2x + y = -16 \end{aligned}$$

$$\begin{aligned} 6. \quad & x + 2y = 13 \\ & -2x - 3y = -18 \end{aligned}$$

$$\begin{aligned} 7. \quad & 0.5x + 4y = -1 \\ & x + 2.5y = 3.5 \end{aligned}$$

$$\begin{aligned} 8. \quad & \frac{1}{2}x + 2y = 12 \\ & x - 2y = 6 \end{aligned}$$

$$\begin{aligned} 9. \quad & 4x - 5y = -7 \\ & y = 5x \end{aligned}$$

$$\begin{aligned} 10. \quad & x + 3y = -4 \\ & 2x + 6y = 5 \end{aligned}$$

Solve the following systems by elimination:

$$\begin{array}{l} 11. \quad 2x - y = -1 \\ \quad 3x - 2y = 1 \end{array}$$

$$\begin{array}{l} 12. \quad 7x + 4y = -4 \\ \quad 5x + 8y = 28 \end{array}$$

$$\begin{array}{l} 13. \quad 3x + 2y = -9 \\ \quad 5x - 3y = 4 \end{array}$$

$$\begin{array}{l} 14. \quad 3x + 4y = 27 \\ \quad 5x - 3y = 16 \end{array}$$

$$\begin{array}{l} 15. \quad 5x - 2y = -10 \\ \quad 3x + 6y = 66 \end{array}$$

$$\begin{array}{l} 16. \quad 2x - 4y = -22 \\ \quad 3x + 3y = 30 \end{array}$$

$$\begin{array}{l} 17. \quad 3x + 2y = 11 \\ \quad 2x + 6y = -2 \end{array}$$

$$\begin{array}{l} 18. \quad 6x - 3y = 21 \\ \quad 2x + 2y = 22 \end{array}$$

$$\begin{array}{l} 19. \quad -3x + 2y = -15 \\ \quad 2x - 4y = -26 \end{array}$$

$$\begin{array}{l} 20. \quad 2x - \frac{3}{4}y = -7 \\ \quad x + \frac{1}{2}y = 0 \end{array}$$
