

## Solving Systems of Equations by Substitution – Day 2

Unit 4: Systems

Solve each of the following systems by using **SUBSTITUTION**:

1. $y = 9x + 24$ $y = 4x + 9$	2. $y = 10x - 15$ $y = 7x - 9$
3. $y = -7x + 15$ $y = -5x + 13$	4. $y = 2x + 1$ $y = -9$
5. $y = 8x - 3$ $y = 4x + 1$	6. $-8x - 4y = 20$ $y = -4x - 3$
7. $6x - 3y = 18$ $y = 7x - 26$	8. $y = 5x - 18$ $-4x - 6y = -28$
9. $y = -3$ $2x - 9y = 19$	10. $y = 5x + 22$ $4x + 6y = 30$

$$\begin{aligned} 11. \quad & -9x + 7y = -30 \\ & x + y = -2 \end{aligned}$$

$$\begin{aligned} 12. \quad & 3x + 4y = 21 \\ & 2x + y = 9 \end{aligned}$$

$$\begin{aligned} 13. \quad & -3x + 8y = -10 \\ & x - 9y = -3 \end{aligned}$$

$$\begin{aligned} 14. \quad & x + 4y = -7 \\ & -x - 4y = -10 \end{aligned}$$

$$\begin{aligned} 15. \quad & 7x + 5y = -27 \\ & x - 6y = 23 \end{aligned}$$

$$\begin{aligned} 16. \quad & -2x - 3y = 8 \\ & -6x - 8y = 28 \end{aligned}$$

$$\begin{aligned} 17. \quad & 2x - 7y = -10 \\ & -6x + 9y = -18 \end{aligned}$$

$$\begin{aligned} 18. \quad & -6x + 10y = -24 \\ & y = -6 \end{aligned}$$

$$\begin{aligned} 19. \quad & 2x - 10y = -16 \\ & 4x - 6y = 10 \end{aligned}$$

$$\begin{aligned} 20. \quad & 8x - 4y = 8 \\ & -5x + 8y = 17 \end{aligned}$$