

Solving Systems of Equations by Substitution – Day 4

Unit 4: Systems

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

1. $y = 8x - 7$ $y = 3x - 2$	2. $y = 6x - 16$ $y = -4x - 6$
3. $y = -5x - 5$ $y = -9x - 13$	4. $y = 8x + 1$ $y = -8x + 1$
5. $y = -9x - 15$ $y = 3$	6. $-18x - 3y = 66$ $y = -6x - 22$
7. $8x + 2y = 2$ $y = -4x + 5$	8. $-4x - 2y = 30$ $y = -3x - 20$
9. $y = -2x - 14$ $7x - 3y = 3$	10. $y = 3x - 10$ $-9x + 3y = -6$

$$\begin{aligned} 11. \quad x + 3y &= 0 \\ 3x + 4y &= -10 \end{aligned}$$

$$\begin{aligned} 12. \quad x - 10y &= -16 \\ 3x - 30y &= -48 \end{aligned}$$

$$\begin{aligned} 13. \quad 3x - 5y &= 19 \\ x - 3y &= 5 \end{aligned}$$

$$\begin{aligned} 14. \quad x - 7y &= -12 \\ -6x - 2y &= -16 \end{aligned}$$

$$\begin{aligned} 15. \quad 5x - 5y &= 25 \\ -8x + y &= 23 \end{aligned}$$

$$\begin{aligned} 16. \quad 4x + 4y &= -12 \\ y &= -3 \end{aligned}$$

$$\begin{aligned} 17. \quad -10x - 8y &= -30 \\ 6x - 5y &= 18 \end{aligned}$$

$$\begin{aligned} 18. \quad -4x - 6y &= -30 \\ -10x - 6y &= 6 \end{aligned}$$

$$\begin{aligned} 19. \quad 5x - 5y &= 5 \\ -10x - 6y &= 22 \end{aligned}$$

$$\begin{aligned} 20. \quad -3x - y &= 17 \\ y &= 4 \end{aligned}$$