

Solving Systems of Equations by Substitution

Unit 4: Systems

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

1. $y = 8x - 13$ $y = x + 1$	2. $y = -7x - 11$ $y = 10x + 23$
3. $y = -7x - 8$ $y = 7x + 6$	4. $y = -7x + 4$ $y = 4x + 4$
5. $y = -8x + 9$ $y = 3x - 2$	6. $y = 5x + 13$ $-4x + 2y = 20$
7. $-6x - 8y = 2$ $y = 5$	8. $y = -9x - 27$ $-9x - y = 27$
9. $8x - 8y = 0$ $y = -3x - 20$	10. $y = 8x - 6$ $9x - 9y = -9$

$$\begin{aligned} 11. \quad x + y &= 7 \\ 2x + 4y &= 12 \end{aligned}$$

$$\begin{aligned} 12. \quad -8x - y &= -5 \\ -5x + y &= 5 \end{aligned}$$

$$\begin{aligned} 13. \quad 9x - 7y &= -12 \\ x + 3y &= 10 \end{aligned}$$

$$\begin{aligned} 14. \quad 5x + y &= 0 \\ -7x - 3y &= -8 \end{aligned}$$

$$\begin{aligned} 15. \quad x - 3y &= 10 \\ -2x + 2y &= -8 \end{aligned}$$

$$\begin{aligned} 16. \quad -2x - 4y &= -22 \\ 2x - 2y &= -26 \end{aligned}$$

$$\begin{aligned} 17. \quad 10x + 9y &= 20 \\ -3x - 4y &= -6 \end{aligned}$$

$$\begin{aligned} 18. \quad -5x - 3y &= -5 \\ 9x + 6y &= 3 \end{aligned}$$

$$\begin{aligned} 19. \quad 4x - y &= 6 \\ 4x - 3y &= 26 \end{aligned}$$

$$\begin{aligned} 20. \quad -7x + 9y &= 12 \\ -9x + 3y &= 24 \end{aligned}$$