

Solving Systems of Equations by Elimination

Unit 4: Systems

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

1. $2x + 4y = 8$ $7x - 4y = -8$	2. $8x + 8y = 19$ $-8x - 8y = -16$
3. $-4x - 3y = -9$ $4x - 3y = 15$	4. $-2x + 5y = -13$ $2x - 4y = 10$
5. $-x + 6y = 8$ $-2x - 6y = -20$	6. $-2x + 6y = -20$ $4x + 6y = -14$
7. $-4x + y = 10$ $-8x + y = 26$	8. $3x + 4y = -10$ $3x - 3y = 18$
9. $-5x - 10y = 20$ $-5x - 7y = 5$	10. $-2x + 5y = 6$ $-2x - 2y = 20$

$$\begin{aligned} 11. \quad & -8x + 8y = 0 \\ & x - 7y = 30 \end{aligned}$$

$$\begin{aligned} 12. \quad & 12x - 9y = 30 \\ & -3x - y = -14 \end{aligned}$$

$$\begin{aligned} 13. \quad & -11x + 7y = -26 \\ & x - 9y = -6 \end{aligned}$$

$$\begin{aligned} 14. \quad & -15x - 15y = 5 \\ & 5x + 5y = 0 \end{aligned}$$

$$\begin{aligned} 15. \quad & 15x - y = 0 \\ & -5x - 5y = 0 \end{aligned}$$

$$\begin{aligned} 16. \quad & -7x - 6y = -16 \\ & -2x - 4y = 16 \end{aligned}$$

$$\begin{aligned} 17. \quad & 7x + 6y = -22 \\ & -2x + 4y = -28 \end{aligned}$$

$$\begin{aligned} 18. \quad & -3x + 7y = 12 \\ & -2x - 4y = 8 \end{aligned}$$

$$\begin{aligned} 19. \quad & -7x - 4y = 13 \\ & -8x - 3y = 29 \end{aligned}$$

$$\begin{aligned} 20. \quad & 8x - 5y = -11 \\ & -3x - 4y = 10 \end{aligned}$$