

## Systems of Equations (Elimination 1)

• The **solution** to a **system of linear equations** is the **point of intersection** of the two graphs. For each of the following **systems of equations** use the **method of elimination** to find the solution.

1. 
$$\begin{aligned} -4x - 2y &= -12 \\ 4x + 8y &= -24 \end{aligned}$$

5. 
$$\begin{aligned} 4x + 8y &= 20 \\ -4x + 2y &= -30 \end{aligned}$$

2. 
$$\begin{aligned} x - y &= 11 \\ 2x + y &= 19 \end{aligned}$$

6. 
$$\begin{aligned} 5y - 6x &= 1 \\ 6x + 4y &= -10 \end{aligned}$$

3. 
$$\begin{aligned} 6y - 6x &= 6 \\ -3y + 6x &= 12 \end{aligned}$$

7. 
$$\begin{aligned} y + 8x &= -16 \\ 3x - y &= 5 \end{aligned}$$

4. 
$$\begin{aligned} 10x - 7y &= -18 \\ 35x + 7y &= 63 \end{aligned}$$

8. 
$$\begin{aligned} 2x + 14y &= -28 \\ -4x - 14y &= 28 \end{aligned}$$