

1. **Reasoning** Which of the following systems would be most efficiently solved using the elimination method?

$$\text{System A} \begin{cases} 2x + 2y = 6 \\ -6x - 2y = 6 \end{cases}$$

$$\text{System B} \begin{cases} y = 2 - 3x \\ 4x - 2y = -2 \end{cases}$$

first 2 steps

2. Explain how you would solve the following system using the elimination method.

$$\begin{array}{r} 2x + 5y = -6 \\ -1(2x + 7y = 14) = -2x - 7y = -14 \\ \hline 12y = -20 \end{array}$$

When the hw is so hard you draw yourself stressed bc what is going on ♡ (im cooked)



Solve each system of equations by elimination. Check your solution.

$$\begin{cases} 1x + y = 12 \\ 1x + y = 2 \end{cases} \\ 2x = 14$$

$$\begin{cases} 3x + 4y = 9 \\ -3x + 2y = -3 \end{cases}$$

$$\begin{cases} -x + y = 4 \\ -2x + y = 2 \end{cases}$$

$$\begin{cases} 6x + 2y = 10 \\ 3(-2x + 2y = 2) \end{cases}$$

$$\begin{cases} 4x + 2y = 7 \\ 3x + 6y = 9 \end{cases}$$

$$\begin{cases} 5x + 6y = 1 \rightarrow 5x - 6y = 1 \\ 3(2x + 2y = 18) \rightarrow 6x + 3(2y) = 54 \end{cases}$$

$$\begin{array}{r} 2(5) + 2y = 18 \\ 10 + 2y = 18 \\ -10 \quad -10 \\ \hline 2y = 8 \\ \frac{2y}{2} = \frac{8}{2} \\ y = 4 \end{array} \quad \begin{array}{r} 11x = 55 \\ \frac{11x}{11} = \frac{55}{11} \\ x = 5 \end{array} \quad (5, 4)$$