

Topic 3 // Lesson 3

O: to solve a system of equations using elimination.

Steps for Elimination

1. Arrange equations in columns
2. Make coefficients the opposite by multiplication
3. Add the equations together and Solve
4. Substitute the value into one of the equations.

$$\begin{array}{l} \text{Ex1} \quad 2x + 3y = 34 \\ \quad \quad 4x - 3y = -4 \\ \hline \end{array}$$

$$\begin{array}{l} \text{Ex2} \quad 2x + 4y = -10 \\ \quad \quad 3x + 3y = -3 \\ \hline \end{array}$$

$$\begin{array}{l} \text{Ex3} \quad -3x + y = 5 \\ \quad \quad 3y + x = -5 \\ \hline \end{array}$$

$$\begin{array}{l} \text{Ex4} \quad -2x + 3y = 6 \\ \quad \quad 4x - 6y = -12 \\ \hline \end{array}$$