

Name:

Date:

Topic:

Class:

Main Ideas/Questions	Notes/Examples
<h1>Elimination Method</h1>	
<h1>Steps to solve</h1>	<ul style="list-style-type: none">• Step 1: Make sure the equations are lined up!• Step 2: _____ or _____ the equations to eliminate the variable with common _____.• Step 3: _____ for the remaining variable.• Step 4: _____ your answer into either original equation and _____ for the other variable.
<h1>Examples</h1>	<p>Directions: Solve each system by elimination.</p> <p>1. $\begin{cases} y = 3x + 4 \\ y = x - 2 \end{cases}$</p> <p>2. $\begin{cases} x + 4y = 13 \\ x - y = 3 \end{cases}$</p> <p>3. $\begin{cases} 3x - 10y = 14 \\ 3x - 9y = 15 \end{cases}$</p> <p>4. $\begin{cases} 4x + 2y = 6 \\ -2x + 2y = 18 \end{cases}$</p>

5.
$$\begin{cases} 4x + 9y = 5 \\ -4x + 7y = 11 \end{cases}$$

6.
$$\begin{cases} 10x - 3y = 18 \\ -2x + 3y = 6 \end{cases}$$

7.
$$\begin{cases} x - y = 10 \\ 3x + y = 18 \end{cases}$$

8.
$$\begin{cases} x = 3y + 11 \\ 2x - 3y = 16 \end{cases}$$

9.
$$\begin{cases} 4y = 2x - 8 \\ 5x - 4y = 20 \end{cases}$$

10.
$$\begin{cases} 3x - 4y = -10 \\ 3x - 4y = -13 \end{cases}$$

11.
$$\begin{cases} 2x + y = -10 \\ -y = 2x + 10 \end{cases}$$

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Main Ideas/Questions	Notes/Examples
<i>What if there are</i> NO COMMON COEFFICIENTS?	
EXAMPLES	<p>1. $\begin{cases} x + 3y = 6 \\ 2x - 7y = -1 \end{cases}$</p> <p>2. $\begin{cases} 9x + 3y = 12 \\ 2x + y = 5 \end{cases}$</p> <p>3. $\begin{cases} 3x - y = 14 \\ 5x + 4y = 12 \end{cases}$</p> <p>4. $\begin{cases} x + y = -3 \\ 5x - 2y = -50 \end{cases}$</p> <p>5. $\begin{cases} 3x - 3y = -3 \\ 2x - y = -5 \end{cases}$</p>

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

7.
$$\begin{cases} 3x + 4y = 6 \\ 7x + 8y = 10 \end{cases}$$

8.
$$\begin{cases} 3x + 3y = 9 \\ 5x + 4y = 10 \end{cases}$$

9.
$$\begin{cases} 5x + 9y = -10 \\ 7x + 10y = -1 \end{cases}$$

10.
$$\begin{cases} 2x = 4y + 18 \\ -5x - 6y = 3 \end{cases}$$

11.
$$\begin{cases} 2x + 4y = 6 \\ 3x = 12 - 6y \end{cases}$$

12.
$$\begin{cases} 7x + 5y = -13 \\ -2x = 7y + 26 \end{cases}$$