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Assignment

1) $x + 10y = 3$
 $4x + 5y = 5$

2) $3x - 2y = -7$
 $2x - 5y = 10$

3) $2x + 3y = 6$
 $x + 2y = 5$

4) $2m + 3n = 4$
 $-m + 2n = 5$

5) $3a - b = 2$
 $a + 2b = 3$

Handwritten notes show the elimination process for each system, including multiplying equations to align coefficients and then adding or subtracting to solve for one variable.

NAME _____ DATE _____ PERIOD _____

6-4 Study Guide and Intervention

Elimination Using Multiplication

Elimination Using Multiplication Some systems of equations cannot be solved simply by adding or subtracting the equations. In such cases, one or both equations must first be multiplied by a number before the system can be solved by elimination.

Example 1: Use elimination to solve the system of equations.

$$\begin{aligned} x + 10y &= 3 \\ 4x + 5y &= 5 \end{aligned}$$

If you multiply the second equation by -2 , you can eliminate the y terms.

$$\begin{array}{r} x + 10y = 3 \\ (+) -8x - 10y = -10 \\ \hline -7x = -7 \\ \frac{-7x}{-7} = \frac{-7}{-7} \\ x = 1 \end{array}$$

Substitute 1 for x in either equation.

$$\begin{aligned} 1 + 10y &= 3 \\ 1 + 10y - 1 &= 3 - 1 \\ 10y &= 2 \\ \frac{10y}{10} &= \frac{2}{10} \\ y &= \frac{1}{5} \end{aligned}$$

The solution is $(1, \frac{1}{5})$.

Exercises

Use elimination to solve each system of equations.

1. $2x + 3y = 6$
 $x + 2y = 5$

2. $2m + 3n = 4$
 $-m + 2n = 5$

3. $3a - b = 2$
 $a + 2b = 3$

Example 2: Use elimination to solve the system of equations.

$$\begin{aligned} 3x - 2y &= -7 \\ 2x - 5y &= 10 \end{aligned}$$

If you multiply the first equation by 2 and the second equation by -3 , you can eliminate the x terms.

$$\begin{array}{r} 6x - 4y = -14 \\ (+) -6x + 15y = -30 \\ \hline 11y = -44 \\ \frac{11y}{11} = \frac{-44}{11} \\ y = -4 \end{array}$$

Substitute -4 for y in either equation.

$$\begin{aligned} 3x - 2(-4) &= -7 \\ 3x + 8 &= -7 \\ 3x + 8 - 8 &= -7 - 8 \\ 3x &= -15 \\ \frac{3x}{3} &= \frac{-15}{3} \\ x &= -5 \end{aligned}$$

The solution is $(-5, -4)$.

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