

## 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  $\left(1, \frac{1}{5}\right)$ .

#### Exercises

Use elimination to solve each system of equations.

$$\begin{aligned}1. \quad 2x + 3y &= 6 \\ x + 2y &= 5\end{aligned}$$

$$\begin{aligned}4. \quad 4x + 5y &= 6 \\ 6x - 7y &= -20\end{aligned}$$

$$\begin{aligned}7. \quad 4x - y &= 9 \\ 5x + 2y &= 8\end{aligned}$$

$$\begin{aligned}10. \quad 6x - 4y &= -8 \\ 4x + 2y &= -3\end{aligned}$$

$$\begin{aligned}2. \quad 2m + 3n &= 4 \\ -m + 2n &= 5\end{aligned}$$

$$\begin{aligned}5. \quad 4x - 3y &= 22 \\ 2x - y &= 10\end{aligned}$$

$$\begin{aligned}8. \quad 4a - 3b &= -8 \\ 2a + 2b &= 3\end{aligned}$$

$$\begin{aligned}11. \quad 4x + 2y &= -5 \\ -2x - 4y &= 1\end{aligned}$$

**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  $(-5, -4)$ .

$$\begin{aligned}3. \quad 3a - b &= 2 \\ a + 2b &= 3\end{aligned}$$

$$\begin{aligned}6. \quad 3x - 4y &= -4 \\ x + 3y &= -10\end{aligned}$$

$$\begin{aligned}9. \quad 2x + 2y &= 5 \\ 4x - 4y &= 10\end{aligned}$$

$$\begin{aligned}12. \quad 2x + y &= 3.5 \\ -x + 2y &= 2.5\end{aligned}$$

13. **GARDENING** The length of Sally's garden is 4 meters greater than 3 times the width. The perimeter of her garden is 72 meters. What are the dimensions of Sally's garden?

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