

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.

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

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

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

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

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

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

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

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

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 $(-5, -4)$.

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

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

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

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

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?

4 Study Guide And Intervention Answers

Robert R. Redfield



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