# Lesson 28: Another Computational Method of Solving a Linear System

## Classwork

#### **Example 1**

Use what you noticed about adding equivalent expressions to solve the following system by elimination.

$$\begin{cases} 6x - 5y = 21\\ 2x + 5y = -5 \end{cases}$$

#### **Example 2**

Solve the following system by elimination.

$$\begin{cases} -2x + 7y = 5\\ 4x - 2y = 14 \end{cases}$$



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### **Example 3**

Solve the following system by elimination.

$$\begin{cases}
7x - 5y = -2 \\
3x - 3y = 7
\end{cases}$$

#### **Exercises**

Each of the following systems has a solution. Determine the solution to the system by eliminating one of the variables. Verify the solution using the graph of the system.

1. 
$$\begin{cases} 6x - 7y = -10 \\ 3x + 7y = -8 \end{cases}$$



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2. 
$$\begin{cases} x - 4y = 7 \\ 5x + 9y = 6 \end{cases}$$

3. 
$$\begin{cases} 2x - 3y = -5 \\ 3x + 5y = 1 \end{cases}$$



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