

UNIT 2 • REASONING WITH LINEAR EQUATIONS AND INEQUALITIES**Lesson 7: Systems of Linear Equations**

Scaffolded Practice 2.7.2**Example 1**

Solve the following system by substitution.

$$\begin{cases} x + y = 2 \\ x - y = 0 \end{cases}$$

1. Solve one of the equations for one of the variables in terms of the other variable.
2. Substitute $2 - x$ for y in the other equation.
3. Solve the equation for the remaining variable.
4. Substitute the found value into either of the original equations to find the value of the other variable.

continued

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Example 2

Solve the following system by elimination.

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

Example 3

Solve the following system by elimination.

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