# 6-2 Study Guide and Intervention

# Substitution

Solve by Substitution One method of solving systems of equations is substitution.

Use substitution to solve the system of equations. y = 2x4x - y = -4

Substitute 2x for y in the second equation.

450	-y	-	-4	Second equation
4x -	2x	-	-4	y = 2x
	2x	-	-4	Combine like terms.
	30	-	-2	Divide each side by 2
				and simplify.

Use y = 2x to find the value of y. y = 2x First equation y = 2(-2) x = -2y = -4 Sampley.

The solution is (-2, -4).

Example 2 Solve for one variable, then substitute. x + 3y = 7

$$\begin{aligned}
x + 3y &= 7 \\
2x - 4y &= -6
\end{aligned}$$

Solve the first equation for x since the coefficient of x is 1.

$$x+3y=7$$
 First equation  $x+3y-3y=7-3y$  Subtract 3y from each side.  $x=7-3y$  Simplify.

Find the value of y by substituting 7 - 3y for x in the second equation.

$$2x - 4y = -6$$
 Second equation  $2(7 - 3y) - 4y = -6$   $x = 7 - 3y$   $14 - 6y - 4y = -6$  Distributive Property  $14 - 10y = -6$  Combine like terms.  $14 - 10y - 14 = -6 - 14$  Subtract 14 from each side.  $-10y = -20$  Simplify.  $y = 2$  Divide each side by  $-10$  and simplify.

Use y = 2 to find the value of x.

$$x = 7 - 3y$$

$$x = 7 - 3(2)$$

$$x = 1$$

The solution is (1, 2).

#### **Exercises**

Use substitution to solve each system of equations.

$$1. y = 4x$$
$$3x - y = 1$$

$$4. x - 2y = -1 \\ 3y = x + 4$$

7. 
$$2b = 6a - 14$$
  
 $3a - b = 7$ 

$$10. x = 2y \\
0.25x + 0.5y = 10$$

$$2. x = 2y \\
y = x - 2$$

$$5. x - 4y = 1$$
$$2x - 8y = 2$$

$$8. x + y = 16 2y = -2x + 2$$

$$11. x - 2y = -5$$
  
 $x + 2y = -1$ 

$$3. x = 2y - 3$$
$$x = 2y + 4$$

$$6. x + 2y = 0$$
$$3x + 4y = 4$$

9. 
$$y = -x + 3$$
  
 $2y + 2x = 4$ 

$$12. -0.2x + y = 0.5$$
$$0.4x + y = 1.1$$

# <u>Algebra 2 Study Guide And Intervention Workbook</u> <u>Answer Key</u>

**McGraw-Hill Staff** 

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