

## 3-4 Study Guide and Intervention

### Systems of Equations in Three Variables

**Systems in Three Variables** Use the methods used for solving systems of linear equations in two variables to solve systems of equations in three variables. A system of three equations in three variables can have a unique solution, infinitely many solutions, or no solution. A solution is an **ordered triple**.

**Example:** Solve the system of equations.

$$3x + y - z = -6$$

$$2x - y + 2z = 8$$

$$4x + y - 3z = -21$$

**Step 1** Use elimination to make a system of two equations in two variables.

$3x + y - z = -6$	First equation	$2x - y + 2z = 8$	Second equation
$(+) 2x - y + 2z = 8$	Second equation	$(+) 4x + y - 3z = -21$	Third equation
$5x + z = 2$	Add to eliminate $y$ .	$6x - z = -13$	Add to eliminate $y$ .

**Step 2** Solve the system of two equations.

$5x + z = 2$	
$(+) 6x - z = -13$	
$11x = -11$	Add to eliminate $z$ .
$x = -1$	Divide both sides by 11.

Substitute  $-1$  for  $x$  in one of the equations with two variables and solve for  $z$ .

$5x + z = 2$	Equation with two variables
$5(-1) + z = 2$	Replace $x$ with $-1$ .
$-5 + z = 2$	Multiply.
$z = 7$	Add 5 to both sides.

The result so far is  $x = -1$  and  $z = 7$ .

**Step 3** Substitute  $-1$  for  $x$  and  $7$  for  $z$  in one of the original equations with three variables.

$3x + y - z = -6$	Original equation with three variables
$3(-1) + y - 7 = -6$	Replace $x$ with $-1$ and $z$ with $7$ .
$-3 + y - 7 = -6$	Multiply.
$y = 4$	Simplify.

The solution is  $(-1, 4, 7)$ .

#### Exercises

Solve each system of equations.

1.  $2x + 3y - z = 0$   
 $x - 2y - 4z = 14$   
 $3x + y - 8z = 17$

2.  $2x - y + 4z = 11$   
 $x + 2y - 6z = -11$   
 $3x - 2y - 10z = 11$

3.  $x - 2y + z = 8$   
 $2x + y - z = 0$   
 $3x - 6y + 3z = 24$

4.  $3x - y - z = 5$   
 $3x + 2y - z = 11$   
 $6x - 3y + 2z = -12$

5.  $2x - 4y - z = 10$   
 $4x - 8y - 2z = 16$   
 $3x + y + z = 12$

6.  $x - 6y + 4z = 2$   
 $2x + 4y - 8z = 16$   
 $x - 2y = 5$

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