7 CHAPTER REVIEW

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- Multi-Language Visual Glossary
- Vocabulary practice

REVIEW KEY VOCABULARY

- system of linear equations, *p. 376*
- solution of a system of linear equations, *p. 376*
- consistent independent system, *p. 376*
- inconsistent system, *p. 405*
- consistent dependent system, *p. 405*
- uniform motion, *p. 413*
- linear inequality in two variables, *p. 425*
- solution of an inequality in two variables, *p. 425*
- graph of an inequality in two variables, *p. 425*
- half-plane, *p. 425*
- system of linear inequalities, *p. 433*
- solution of a system of linear inequalities, *p. 433*
- graph of a system of linear inequalities, *p. 433*

VOCABULARY EXERCISES

1. Copy and complete: A(n) ? consists of two or more linear inequalities in the same variables.

2. **NOTETAKING SKILLS** Make a case diagram like the one on page 374 for the possible numbers of solutions of a system of linear inequalities.

3. Give an example of a consistent dependent system. *Explain* why the system is a consistent dependent system.

REVIEW EXAMPLES AND EXERCISES

Use the review examples and exercises below to check your understanding of the concepts you have learned in each lesson of Chapter 7.

7.1 Solve Linear Systems by Graphing *pp. 376–381*

Alg. 9.0

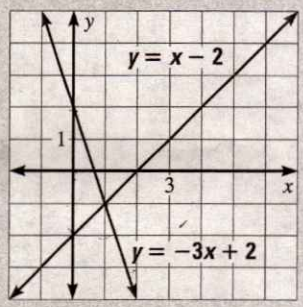
EXAMPLE

Solve the linear system by graphing. Check your solution.

$y = x - 2$ **Equation 1**
$y = -3x + 2$ **Equation 2**

Graph both equations. The lines appear to intersect at $(1, -1)$. Check the solution by substituting 1 for x and -1 for y in each equation.

$y = x - 2$	$y = -3x + 2$
$-1 \stackrel{?}{=} 1 - 2$	$-1 \stackrel{?}{=} -3(1) + 2$
$-1 = -1$ ✓	$-1 = -1$ ✓



EXERCISES

Solve the linear system by graphing. Check your solution.

EXAMPLES 1 and 2 on pp. 376–377 for Exs. 4–6

4. $y = -3x + 1$
   $y = x - 7$

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

6. $x + y = 3$
   $x - y = 5$