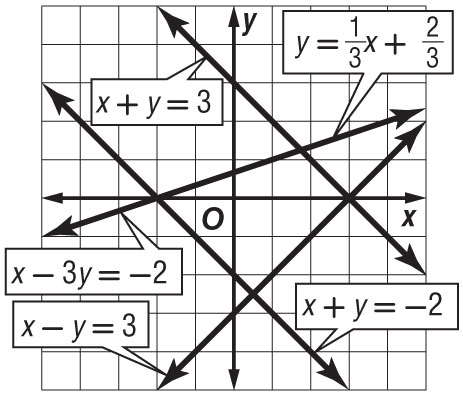
**Chapter 6 Quiz Review**

*(Lessons 6-1 through 6-3)*

**Part I *Write the letter for the correct answer in the blank at the right of each question.***

**Use the graph for Questions 1 and 2. For Questions 1 and 2,   
determine how many solutions exist for each system of equations.**

**A** no solution

**B** one solution

**C** infinitely many solutions

**D** cannot be determined

**1.** *x* + *y* = 3 **2.** *x* + *y* = 3

*x* – *y* = 3 *x* + *y* = –2

**3.** The solution to which system of equations has a positive *y* value?

**F** *x* + *y* = 3 **G** *x* + *y* = 3 **H** *x* – 3*y* = –2 **J** *x* + *y* = 3

*x* – 3*y* = –2 *x* + *y* = –2 *x* + *y* = –2 *x* – *y* = 3

**4.** If *y* = 5*x* – 3 and 3*x* – *y* = –1, what is the value of *y*?

**A** 2 **B** –1 **C** 7 **D** –8

**5.** Use elimination to solve the system of equations for *y*. *x* – 5*y* = –6

*x* + 2*y* = 8

**F**  **G** 2 **H** 4 **J** 4

**6.** How many solutions does the system 2*y* = 10*x* – 14 and 5*x* – *y* = 7 have?

**A** one **B** two **C** none **D** infinitely many

**1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**3. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Part II**

**7.** Graph the system of equations. Then determine whether it has *no* solution, *one* solution, or *infinitely many* solutions. If the system has one solution name it.

*x* – 3*y* = –3

*x* + 3*y* = 9

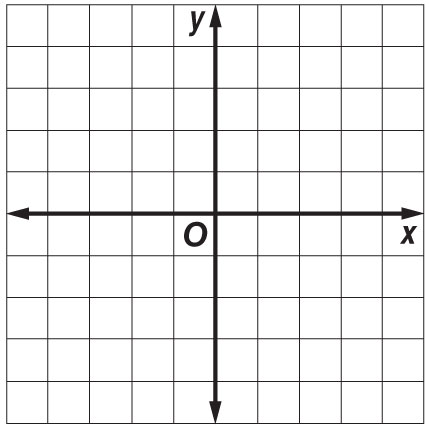
**8.** Use substitution to solve the 4*x* + *y* = 0

system of equations. *x* + 2*y* = –7

**For Questions 9–10, use elimination to solve each system of equations.**

**9.** -3*r* + 3*t* = 9 **10.** 9*x* + 2*y* = –17

3*r* + 4*t* = 12 –11*x* + 2*y* = 3

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**7.**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**8. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**9. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**10. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**