**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** $\frac{2}{3}$ **G** 2 **H** 4 **J** 4$\frac{2}{3}$

 **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

****

**7.**

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

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

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

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