Name _____ Date _____

LESSON 7.5

Practice B

For use with pages 459–465

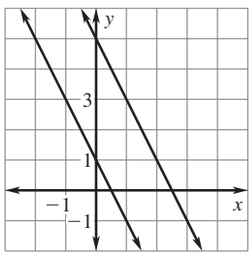
Match the linear system with its graph. Then use the graph to tell whether the linear system has *one solution*, *no solution*, or *infinitely many solutions*.

1. $y + 3 = 4x$
$3y = 12x - 9$

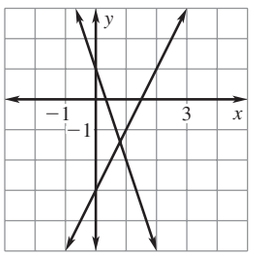
2. $2x + y = 1$
$2x + y = 5$

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

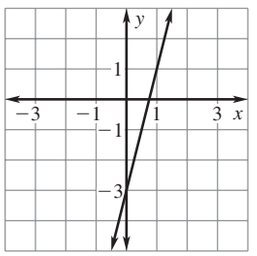
A.



B.

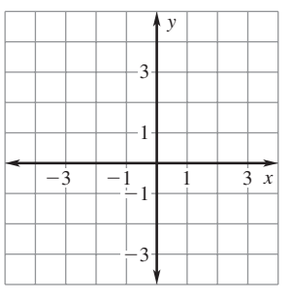


C.

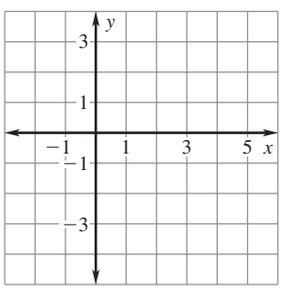


Graph the linear system. Then use the graph to tell whether the linear system has *one solution*, *no solution*, or *infinitely many solutions*.

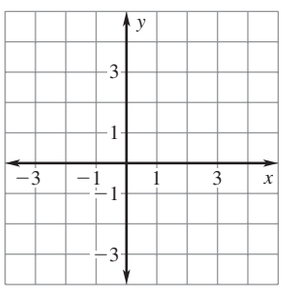
4. $-6x + 2y = -2$
$-3x + y = 2$



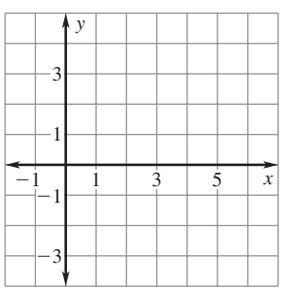
5. $2y - x = -4$
$2x + y = 3$



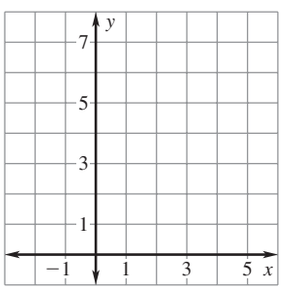
6. $4x - y = 2$
$-x + 3y = 9$



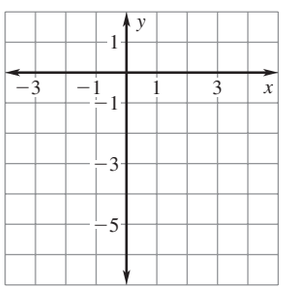
7. $x + 2y = 3$
$-x + 2y = -2$



8. $3x + y = 4$
$x + \frac{1}{3}y = 2$



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



Name _____ Date _____

LESSON 7.5

Practice B *continued*

For use with pages 459–465

Solve the linear system by using substitution or elimination.

10. $3x - 2y = 24$
$x + 2y = 8$

11. $3x + 2y = 4$
$-6x - 4y = -8$

12. $x + y = 50$
$-3x + 2y = 0$

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

14. $-x + 3y = 9$
$2x + y = 10$

15. $2x + y = 6$
$2x + y = -7$

Without solving the linear system, tell whether the linear system has *one solution*, *no solution*, or *infinitely many solutions*.

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

17. $y + 2x = \frac{8}{3}$
$2x + y = -10$

18. $4x + 3y = 9$
$\frac{3}{4}x + y = 3$

19. $4x - 6y = -1$
$-\frac{3}{2}x + y = \frac{1}{4}$

20. $-\frac{2}{3}x + y = 2$
$-6x + 3y = 6$

21. $9x - 15y = 15$
$x + \frac{3}{5}y = 1$

22. $-3x + 4y = 2$
$2y = \frac{3}{2}x + 1$

23. $3x + y = 4$
$x + \frac{1}{3}y = 2$

24. $-4x + 3y = 2$
$4 - 6y = -8x$

25. Golf Clubs A sporting goods store stocks a "better" set of golf clubs in both left-handed and right-handed sets. The set of left-handed golf clubs sells for x dollars and the set of right-handed golf clubs sells for y dollars. In one month, the store sells 2 sets of left-handed golf clubs and 12 sets of right-handed golf clubs for a total of $1859.30. The next month, the store sells 2 sets of left-handed golf clubs and 22 sets of right-handed golf clubs for a total of $3158.80. Is there enough information to determine the cost of each kind of set? *Explain*.

26. Comedy Tickets The table below shows the ticket sales at an all-ages comedy club on a Friday night and a Saturday night.

Day	Number of adult tickets	Number of student tickets	Total sales (dollars)
Friday	30	20	910
Saturday	45	30	1365

a. Let x represent the cost (in dollars) of one adult ticket and let y represent the cost (in dollars) of one student ticket. Write a linear system that models the situation.

b. Solve the linear system.

c. Can you determine how much each kind of ticket costs? Why or why not?