

## SOL Mini-Challenge

## Equations and Inequalities

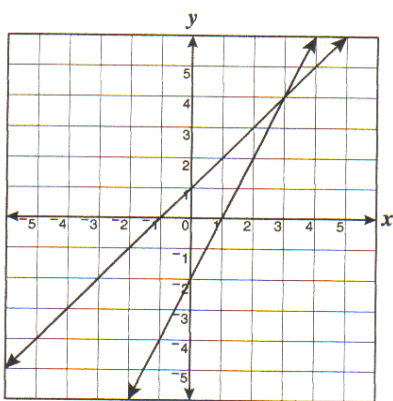
### A.9

Read and solve.

1. What is the solution of the following system of equations:  $5x + 4y = 22$   
 $3x + 4y = 10$

- A.  $x = 2, y = 2$
- B.  $x = 2, y = 3$
- C.  $x = 2, y = 1$
- D.  $x = 6, y = -2$

2.



Which is most likely the solution to the system of equations shown in the graph?

- F (4, 3)
  - G (-2, 0)
  - H (3, 4)
  - J (1, 0)
3. What is the solution of the following system of equations:  $x = y + 9$   
 $x + y = 11$
- A. (0, 9)
  - B. (1, 10)
  - C. (10, 1)
  - D. (10, 10)
4. What is the solution of the following system of equations:  $2m + n = 1$   
 $m - n = 8$
- F. (3, -5)
  - G. (-3, 5)
  - H. (5, -3)
  - J. (-5, 3)

**SOL Mini-Challenge—continued**

5. What is the solution of the following system of equations:  $x - 5y = 0$   
 $2x - 3y = 7$

- A. (-1, 5)
- B. (2, 10)
- C. (1, 5)
- D. (5, 1)

6. What is the solution of the following system of equations:  $y = 2x$   
 $x + 2y = 8$

- F. (0, 4)
- G. (8/5, 16/5)
- H. (4, 8)
- J. (0, 4/5)

7. What is the solution of the following system of equations:  $2x + y = 1$   
 $3x - 4y = 7$

- A. (-3, 5)
- B. (1, -1)
- C. (5, -3)
- D. (6, -4)

8. What is the solution of the following system of equations:  $9x + 8y = 7$   
 $18x - 15y = 14$

- F. (0, 7/8)
- G. (7.9, 0)
- H. (1, -1/4)
- J. (2, -11/8)