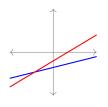
## Module E: Solving Systems of Linear Equations

## **Readiness Assurance Test**

(a) Infinitely-many

Choose the most appropriate response for each question.

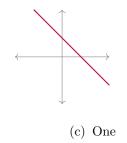
- 1) Which of the following describe the set of all points on the line 2x + 3y = 0?
  - (a)  $\{(x,y) | 2x + 3y = 0\}$  (b)  $\{(x,y)\}$  (c)  $\{(2x,3y)\}$  (d)  $\{(2x,3y) | 2x + 3y = 0\}$
- 2) How many solutions are there for the system of linear equations represented by the following graph?



- (a) One (b) Two (c) Zero (d) Infinitely-many
- 3) Which of the following points is an element of the set  $\{(x, y) | 3x + 4y = 12\}$ ?

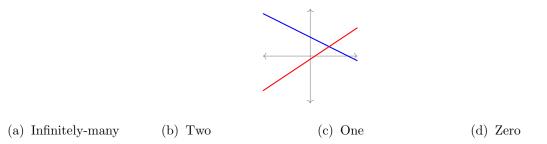
(b) Two

- (a) (1,1) (b) (8,-3) (c) (3,4) (d) (4,-3)
- 4) How many solutions are there for the system of linear equations represented by the following graph? (This graph represents two completely overlapping lines.)

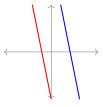


(d) Zero

5) How many solutions are there for the system of linear equations represented by the following graph?



6) How many solutions are there for the system of linear equations represented by the following graph? (This graph represents two non-overlapping parallel lines.)



(a) Two (b) One (c) Zero (d) Infinitely-many

7) Solve the following system of linear equations.

$$y = 2x + 5$$
$$y = -x + 2$$

(a) (x,y) = (-1,3) (b) (x,y) = (4,-2) (c) There are no solu- (d) There are infinitelytions. (d) There are infinitelymany solutions.

8) Solve the following system of linear equations.

$$y = 3x + 5$$
$$y = 3x + 2$$

(a) 
$$(x, y) = (3, 4)$$
 (b)  $(x, y) = (-5, 1)$  (c) There are no solu- (d) There are infinitely-  
tions. many solutions.

9) Solve the following system of linear equations.

$$\begin{aligned} x + 2y &= 4\\ 2x - 3y &= 1 \end{aligned}$$

(a) (x, y) = (-1, 4) (b) (x, y) = (2, 1) (c) There are no solu- (d) There are infinitelytions. (d) There are infinitelymany solutions.

10) Solve the following system of linear equations.

$$4x - 8y = 12$$
$$-6x + 12y = -18$$

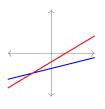
(a) 
$$(x, y) = (3, 3)$$
 (b)  $(x, y) = (-2, 1)$  (c) There are no solu- (d) There are infinitely-  
tions. many solutions.

## **Readiness Assurance Test**

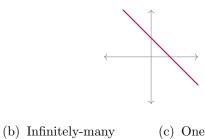
(a) Zero

Choose the most appropriate response for each question.

- 1) Which of the following describe the set of all points on the line 2x + 3y = 0?
  - (a)  $\{(x,y)\}$  (b)  $\{(x,y) | 2x + 3y = 0\}$  (c)  $\{(2x,3y)\}$  (d)  $\{(2x,3y) | 2x + 3y = 0\}$
- 2) How many solutions are there for the system of linear equations represented by the following graph?

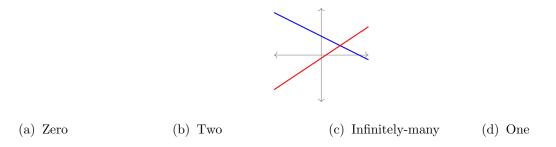


- (a) Infinitely-many (b) Two (c) One (d) Zero
- 3) Which of the following points is an element of the set  $\{(x, y) | 3x + 4y = 12\}$ ?
  - (a) (1,1) (b) (8,-3) (c) (3,4) (d) (4,-3)
- 4) How many solutions are there for the system of linear equations represented by the following graph? (This graph represents two completely overlapping lines.)

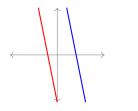


(d) Two

5) How many solutions are there for the system of linear equations represented by the following graph?



6) How many solutions are there for the system of linear equations represented by the following graph? (This graph represents two non-overlapping parallel lines.)



(a) Infinitely-many (b) Zero (c) One (d) Two

7) Solve the following system of linear equations.

$$y = 2x + 5$$
$$y = -x + 2$$

- (a) (x, y) = (-1, 3) (b) (x, y) = (4, -2) (c) There are no solu- (d) There are infinitelytions. (d) There are infinitelymany solutions.
- 8) Solve the following system of linear equations.

$$y = 3x + 5$$
$$y = 3x + 2$$

- (a) (x, y) = (3, 4) (b) (x, y) = (-5, 1) (c) There are infinitely- (d) There are no solumnary solutions.
- 9) Solve the following system of linear equations.

$$\begin{aligned} x + 2y &= 4\\ 2x - 3y &= 1 \end{aligned}$$

- (a) (x,y) = (-1,4) (b) (x,y) = (2,1) (c) There are no solu- (d) There are infinitelytions. many solutions.
- 10) Solve the following system of linear equations.

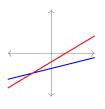
$$4x - 8y = 12$$
$$-6x + 12y = -18$$

(a) There are infinitely- (b) There are no solu- (c) (x, y) = (3, 3) (d) (x, y) = (-2, 1) many solutions.

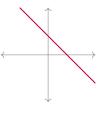
## **Readiness Assurance Test**

Choose the most appropriate response for each question.

- 1) Which of the following describe the set of all points on the line 2x + 3y = 0?
  - (a)  $\{(x,y)\}$  (b)  $\{(x,y) | 2x + 3y = 0\}$  (c)  $\{(2x,3y)\}$  (d)  $\{(2x,3y) | 2x + 3y = 0\}$
- 2) How many solutions are there for the system of linear equations represented by the following graph?

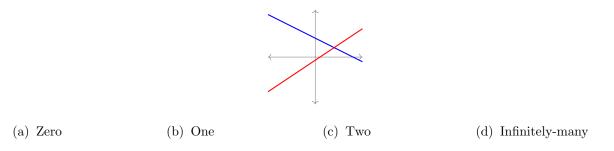


- (a) Infinitely-many (b) Zero (c) One (d) Two
- 3) Which of the following points is an element of the set  $\{(x, y) | 3x + 4y = 12\}$ ?
  - (a) (1,1) (b) (8,-3) (c) (3,4) (d) (4,-3)
- 4) How many solutions are there for the system of linear equations represented by the following graph? (This graph represents two completely overlapping lines.)

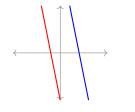


(a) One (b) Two (c) Infinitely-many (d) Zero

5) How many solutions are there for the system of linear equations represented by the following graph?



6) How many solutions are there for the system of linear equations represented by the following graph? (This graph represents two non-overlapping parallel lines.)



(a) Infinitely-many (b) Zero (c) One (d) Two

7) Solve the following system of linear equations.

$$y = 2x + 5$$
$$y = -x + 2$$

- (a) There are no solu- (b) There are infinitely- (c) (x, y) = (4, -2) (d) (x, y) = (-1, 3) tions.
- 8) Solve the following system of linear equations.

$$y = 3x + 5$$
$$y = 3x + 2$$

- (a) (x, y) = (3, 4) (b) (x, y) = (-5, 1) (c) There are no solu- (d) There are infinitelytions. many solutions.
- 9) Solve the following system of linear equations.

$$\begin{aligned} x + 2y &= 4\\ 2x - 3y &= 1 \end{aligned}$$

- (a) (x,y) = (-1,4) (b) (x,y) = (2,1) (c) There are no solu- (d) There are infinitelytions. many solutions.
- 10) Solve the following system of linear equations.

$$4x - 8y = 12$$
$$-6x + 12y = -18$$

(a) There are infinitely- (b) There are no solu- (c) (x, y) = (3, 3) (d) (x, y) = (-2, 1) many solutions.