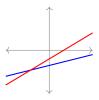
Readiness Assurance Test

Choose the most appropriate response for each question.

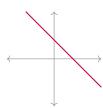
1) Which of the following describe the set of all points on the line 2x + 3y = 0?

(a) $\{(x,y) | 2x + 3y = 0\}$ (b) $\{(x,y)\}$

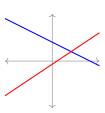
- (c) $\{(2x,3y)\}\$ (d) $\{(2x,3y) | 2x + 3y = 0\}$
- 2) How many solutions are there for the system of linear equations represented by the following graph?



- (a) Zero
- (b) One
- (c) Two
- (d) Infinitely-many
- 3) Which of the following points is an element of the set $\{(x,y) \mid 3x + 4y = 12\}$?
 - (a) (1,1)
- (b) (3,4)
- (c) (4, -3)
- (d) (8, -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.)

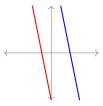


- (a) One
- (b) Two
- (c) Infinitely-many
- (d) Zero
- 5) How many solutions are there for the system of linear equations represented by the following graph?



- (a) Zero
- (b) One

- (c) Two
- (d) Infinitely-many
- 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)=(-1,3) (d) (x,y)=(4,-2)tions. many solutions.

8) Solve the following system of linear equations.

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

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

9) Solve the following system of linear equations.

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

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