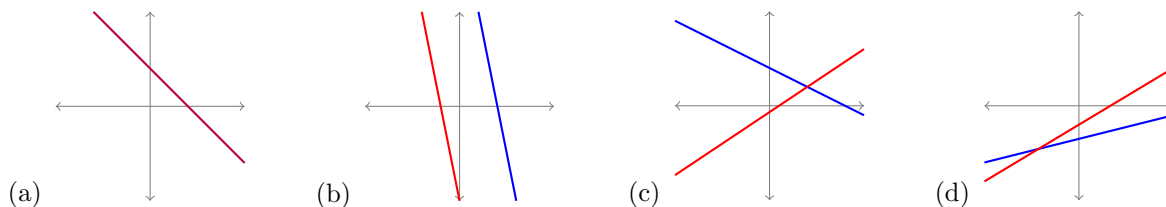


## Readiness Assurance Test

Choose the most appropriate response for each question.

- 1) Which of these graphs represents the following system of linear equations?

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

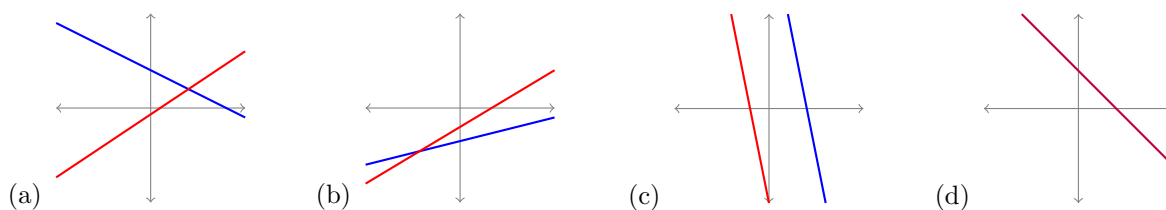


- 2) How many solutions are there for the system of linear equations represented by the following graph?

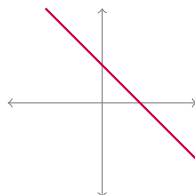


- (a) One                      (b) Two                      (c) Zero                      (d) Infinitely-many
- 3) Which of these graphs represents the following system of linear equations?

$$\begin{aligned}3x + 3y &= 6 \\ x + y &= 2\end{aligned}$$



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

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) Zero                      (b) One                      (c) Two                      (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 solutions.                      (d) There are infinitely-many 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 solutions.                      (d) There are infinitely-many solutions.

9) Solve the following system of linear equations.

$$x + 2y = 4$$

$$2x - 3y = 1$$

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

10) Solve the following system of linear equations.

$$\begin{aligned}4x - 8y &= 12 \\ -6x + 12y &= -18\end{aligned}$$

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