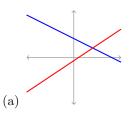
Readiness Assurance Test

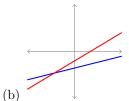
Choose the most appropriate response for each question.

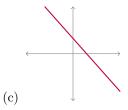
1) Which of these graphs represents the following system of linear equations?

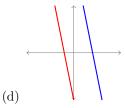
$$x + 2y = 4$$

$$2x - 3y = 1$$

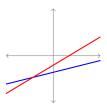




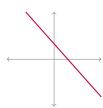




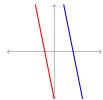
2) How many solutions are there for the system of linear equations represented by the following graph?



- (a) Zero
- (b) One
- (c) Two
- (d) Infinitely-many
- 3) 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
- 4) How many solutions are there for the system of linear equations represented by the following graph? (This graph represents two parallel lines.)



(a) Zero

(b) One

(c) Two

(d) Infinitely-many

5) Solve the following system of linear equations.

$$y = 2x + 5$$

$$y = -x + 2$$

(a) x = -1 and y = 3 (b) $\begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 4 \\ -2 \end{bmatrix}$

(c) There are no solu- (d) There are infinitely-tions.

6) Solve the following system of linear equations.

$$x + 2y = 4$$

$$2x - 3y = 1$$

(a)
$$\begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} -1 \\ 4 \end{bmatrix}$$
 (b) $\begin{bmatrix} x_1 \\ x_2 \end{bmatrix} = \begin{bmatrix} 2 \\ 1 \end{bmatrix}$

(c) There are no solu- (d) There are infinitelymany solutions.