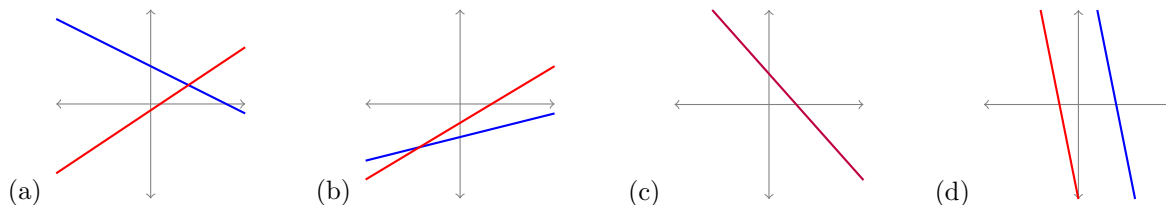


Readiness Assurance Test

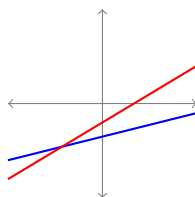
Choose the most appropriate response for each question.

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

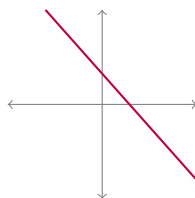
$$\begin{aligned}x + 2y &= 4 \\ 2x - 3y &= 1\end{aligned}$$



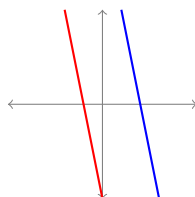
- 2) How many solutions are there for the system of linear equations represented by the following graph?



- (a) 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 solutions. (d) There are infinitely-many solutions.

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 solutions. (d) There are infinitely-many solutions.