

## Identify systems with no solution

- 1** How many solutions does this linear equation have?

$$4(3x + 2) = 12x + 7$$

- A One solution
- B Zero solutions
- C Infinitely many solutions

- 2** Infinitely many solutions

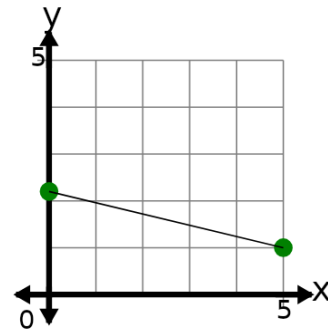
A  $3(4x + 1) = 4x - 6$

B  $4(3x + 3) = 12x + 12$

- 3** The lines are the same line

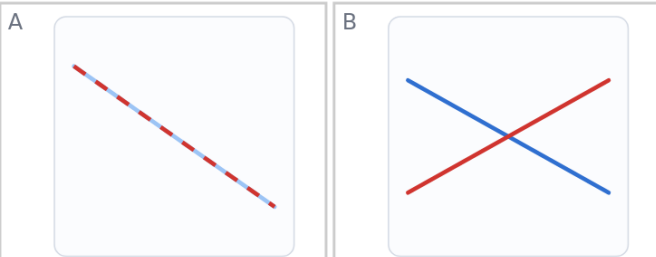
- A Infinitely many solutions
- B Zero solutions
- C One solution

- 4** What slope would be PARALLEL to the slope of the line on this graph?



- A  $m = \frac{1}{5}$
- B  $m = -\frac{1}{5}$
- C  $m = \frac{5}{2}$
- D  $m = -5$

- 5** One solution



- 6** Which graph matches this system of linear equations?

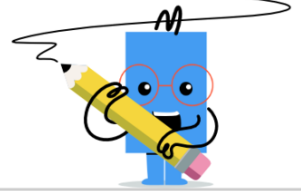
$$\begin{aligned} 2x + 3y &= 6 \\ 3x + y &= -5 \end{aligned}$$



- 7** One solution

A  $\begin{aligned} x + 2y &= 2 \\ x + 3y &= -5 \end{aligned}$

B  $\begin{aligned} 3x + y &= -6 \\ 3x + y &= -5 \end{aligned}$



## Identify systems with no solution

**8**

How many solutions does this system of linear equations have?

$$2x + y = -8$$

$$2x + y = -9$$

A One solution

B Infinitely many solutions

C Zero solutions

**9**

How many solutions does this system of linear equations have?



A Infinitely many solutions

B Zero solutions

C One solution

**10**

The lines are the same line

A

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

$$9x + 6y = -6$$

B

$$2x + y = 1$$

$$2x + y = 0$$

**12**

Infinitely many solutions

A

$$2x + 4y = -7$$

$$4x + 8y = -14$$

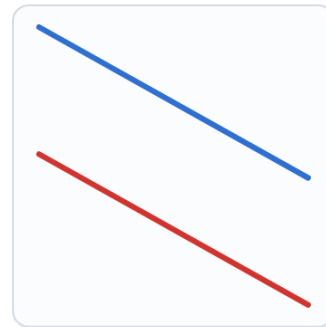
B

$$x + y = 6$$

$$4x + 2y = 7$$

**11**

Which pair of linear equations matches this graph?



A

$$4x + 2y = 0$$

$$12x + 6y = 0$$

B

$$x + 4y = -8$$

$$x + 4y = -11$$