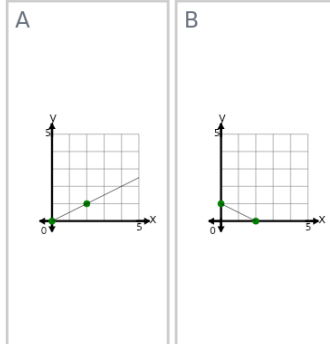




Identify systems with one solution

- 1 What graphed line shows this line equation?

$$y = \frac{1}{2}x$$



- 2 What line equation would be equivalent to this standard form line equation?

$$0.2x + 1y = 1.2$$

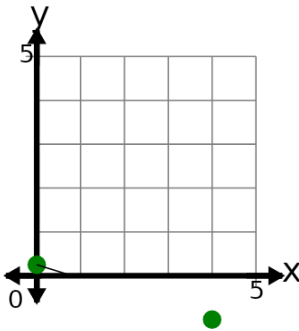
A
$$y = \frac{1}{5}x + 1.2$$

B
$$y = -\frac{1}{5}x + 1.2$$

C
$$y = -5x + 1.2$$

D
$$y = \frac{5}{2}x + 1.2$$

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



A
$$m = \frac{1}{4}$$

B
$$m = -4$$

C
$$m = \frac{4}{2}$$

D
$$m = -\frac{1}{4}$$

- 4 How many solutions does this linear equation have?

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

A Zero solutions

B One solution

C Infinitely many solutions

- 5 Is $(x, y) = (-3, 1)$ a solution to this system of linear equations?

$$3x + 2y = -11$$

$$4x + 4y = -16$$

A
Yes

B
No

- 6 The lines cross at one point

A One solution

B Zero solutions

C Infinitely many solutions

**Identify systems with one solution****7**How would you check whether $(x, y) = (0, 3)$ is a solution to this system of linear equations?

$$4x + 3y = 9$$

$$2x + y = 3$$

A

$$\begin{aligned} 4(0) + 3(3) &= 9 \\ 2x + y &= 3 \end{aligned}$$

B

$$\begin{aligned} 4(1) + 3(3) &= 9 \\ 2(1) + (3) &= 3 \end{aligned}$$

C

$$\begin{aligned} 4(0) + 3(3) &= 9 \\ 2(0) + (3) &= 3 \end{aligned}$$

D

$$\begin{aligned} 4(3) + 3(0) &= 9 \\ 2(3) + (0) &= 3 \end{aligned}$$

8

Zero solutions

A

The lines are the same line

B

The lines cross at one point

C

The lines are parallel

9

Which graph matches this system of linear equations?

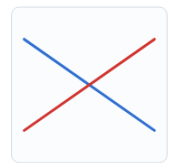
$$2x + 4y = 7$$

$$2x + 3y = 4$$

A



B

**10**

How many solutions does this system of linear equations have?

$$4x + 2y = 0$$

$$4x + 4y = 7$$

A Infinitely many solutions

B One solution

C Zero solutions

11

Zero solutions

A

$$3x + y = 4$$

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

B

$$2x + y = 2$$

$$2x + y = 1$$

**Identify systems with one solution****12**

Which pair of linear equations matches this graph?



A

$$4x + 2y = 8$$
$$4x + 2y = 13$$

B

$$2x + 2y = -7$$
$$6x + 6y = -21$$

13

How many solutions does this system of linear equations have?



A Infinitely many solutions

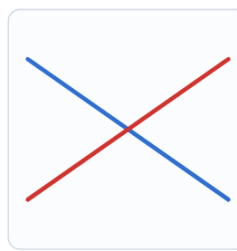
B One solution

C Zero solutions

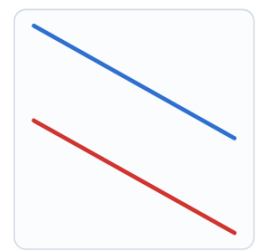
14

Zero solutions

A



B

**15**

The lines cross at one point

A

$$2x + 2y = -3$$
$$2x + 2y = -6$$

B

$$x + 2y = 6$$
$$x + 4y = -6$$

16

Find the intersection point of these two lines

$$y = -2x - 3$$
$$y = 8x + 6$$

A $(-5.9, 1.8)$ B $(-0.9, 0.8)$ C $(0.1, -5.2)$ D $(-0.9, 2.8)$ E $(1.1, -6.2)$ F $(-0.9, -1.2)$ **17**

Zero solutions

A

$$2(4x + 3) = 8x + 3$$

B

$$2(4x + 2) = 7x - 5$$

18

Find the intersection point of these two lines

$$y = 3x + 8$$
$$y = 2x + 7$$

A $(-1, 4)$ B $(-1, 5)$ C $(2, 6)$ D $(-3, 1)$ E $(-2, 0)$ F $(2, 0)$