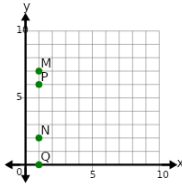




Determine the point of intersection of two lines

1For the equation $y = -1x + 7$, what point is at $x = 1$?

A P

B M

C Q

D N

2

Find the intersection point of these two lines

$$y = -2x - 0$$

$$x = -2$$

A (1, 4)

B (-2, 0)

C (-2, 7)

D (-2, 1)

E (-2, 5)

F (-2, 4)

3

Find the intersection point of these two lines

$$y = -4x + 4$$

$$x = 2$$

A (5, -1)

B (2, 0)

C (2, -4)

D (6, -7)

E (2, -2)

F (2, -9)

4

Find the intersection point of these two lines

$$y = -5x + 5$$

$$y = 0$$

A (1, 0)

B (4, 0)

C (4, -2)

D (3, -4)

E (-3, 0)

F (2, 0)

5

Find the intersection point of these two lines

$$y = 2x + 2$$

$$y = 8$$

A (5, 8)

B (3, 8)

C (-1, 8)

D (-2, 9)

E (1, 8)

F (2, 8)

6

Solve for the variable by substituting the second equation into the first

$$61y - 10c = 6$$

$$c = 5y + 6$$

$$y = ?$$

A $y = 9$

B $y = 6$

C $y = 4$

D $y = 5$

E $y = 50$

F $y = 60$

7

The lines are parallel

A One solution

B Zero solutions

C Infinitely many solutions

8

How many solutions does this system of linear equations have?



A Zero solutions

B One solution

C Infinitely many solutions



Determine the point of intersection of two lines

9How would you check whether $(x, y) = (1, -3)$ is a solution to this system of linear equations?

$$3x + 4y = -9$$

$$x + 3y = -8$$

A

$$\begin{aligned} 3(1) + 4(-3) &= -9 \\ x + 3y &= -8 \end{aligned}$$

B

$$\begin{aligned} 3(2) + 4(-3) &= -9 \\ (2) + 3(-3) &= -8 \end{aligned}$$

C

$$\begin{aligned} 3(1) + 4(-3) &= -9 \\ (1) + 3(-3) &= -8 \end{aligned}$$

D

$$\begin{aligned} 3(-3) + 4(1) &= -9 \\ (-3) + 3(1) &= -8 \end{aligned}$$

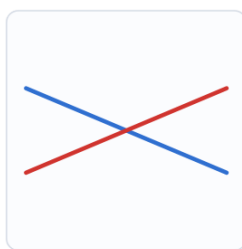
10

One solution

A



B

**11**

Which graph matches this system of linear equations?

$$2x + 4y = 6$$

$$2x + 4y = 4$$

A



B

**12**

The lines cross at one point

A

$$\begin{aligned} 2x + 4y &= -2 \\ 4x + 8y &= -4 \end{aligned}$$

B

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

13

Infinitely many solutions

A

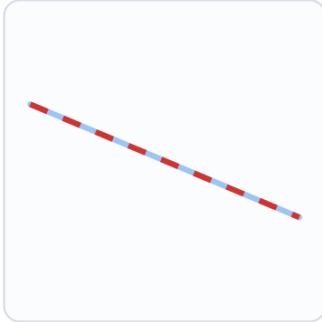
$$\begin{aligned} 3x + y &= 6 \\ 9x + 3y &= 18 \end{aligned}$$

B

$$\begin{aligned} 4x + y &= -4 \\ 4x + y &= 0 \end{aligned}$$

**Determine the point of intersection of two lines****14**

Which pair of linear equations matches this graph?



A

$$\begin{aligned}4x + 4y &= -5 \\ 8x + 8y &= -10\end{aligned}$$

B

$$\begin{aligned}2x + 2y &= -7 \\ 3x + 4y &= 7\end{aligned}$$

15

Find the intersection point of these two lines

$$y = -4x + 8$$

$$y = 4x - 1$$

A

$(-1.88, 7.5)$

B

$(-3.88, 1.5)$

C

$(1.13, 3.5)$

D

$(-3.88, -0.5)$

E

$(-3.88, 2.5)$

F

$(0.13, 3.5)$

16

Find the intersection point of these two lines

$$y = 6x - 2$$

$$y = -5x - 2$$

A

$(-2, -3)$

B

$(-5, 2)$

C

$(-5, -5)$

D

$(-2, -5)$

E

$(-3, -1)$

F

$(-0, -2)$