



Determine whether an ordered pair solves a system of equations

1How would you check whether $x = 3$ is a solution to this linear equation?

$$4(4x + 4) = 2x + 58$$

A	$4(4(3) + 4) = 2(3) + 58$
B	$4(4(3) + 4) = 2x + 58$
C	$44(3) + 4 = 2(3) + 58$
D	$4(4(4) + 4) = 2(4) + 58$

2Is $x = 7$ a solution to this linear equation?

$$2(4x + 5) = 4x + 26$$

A	B
No	Yes

3

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

$$2b + r = 15$$

$$r = 5$$

$$b = ?$$

A $b = 8$	B $b = 7$
C $b = 3$	D $b = 6$
E $b = 4$	F $b = 5$

4

Substitute the second variable equation into the first equation to form a single solvable equation

$$\begin{aligned} 3p + z &= 40 \\ z &= 7p \\ p &= ? \end{aligned}$$

A $7p + 7 = p$	B $3p + 5p = 40$
C $3p + 7 = 40$	D $3p + 6p = 40$
E $3p - 6p = 40$	F $3p + 7p = 40$

5

Substitute the second equation into the first equation to form a single solvable equation

$$\begin{aligned} 5c - m &= 14 \\ m &= 3c + 2 \\ c &= ? \end{aligned}$$

A $10c + 3c - 2 = 14$	B $5c + 10c = 14$
C $5c - 3c - 2 = 14$	D $10c - 3c + 2 = 14$
E $8c + 3 = c$	F $5c - 9c + 10 = 14$

6Is $(x, y) = (3, 3)$ a solution to this system of linear equations?

$$x + 4y = 15$$

$$3x + 4y = 21$$

A	B
No	Yes

7

Find the intersection point of these two lines

$$y = -4x + 3$$

$$y = -1x + 6$$

A $(0, 11)$	B $(-4, 6)$
C $(-3, 4)$	D $(-1, 7)$
E $(-1, 5)$	F $(2, 11)$

**Determine whether an ordered pair solves a system of equations****8**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

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

B

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

C

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

D

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

9

Find the intersection point of these two lines

$$y = 7x - 3$$

$$y = 1x - 3$$

A $(-3, -3)$

B $(-5, 1)$

C $(1, -8)$

D $(-0, -3)$

E $(0, -5)$

F $(1, -5)$

10Is $(x, y) = (-3, 4)$ a solution to this system of linear equations?

$$4x + y = -10$$

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

A

No

B

Yes

11

Find the intersection point of these two lines

$$y = -6x - 1$$

$$y = -3x - 1$$

A $(0, -1)$

B $(-1, 0)$

C $(-3, -3)$

D $(4, 0)$

E $(4, -3)$

F $(-1, 3)$