

## Pair of Linear Equations in Two varibles Ex 3.2 Q6 $\,$

## Answer:

The given equations are:

$$x-2y=6 \quad .....(i)$$

$$3x - 6y = 0$$
 .....(ii)

Putting x = 0 in equation (i), we get:

$$\Rightarrow 0 - 2y = 6$$

$$\Rightarrow y = -3$$

$$x = 0, y = -3$$

Putting y = 0 in equation (i) we get:

$$\Rightarrow x - 2 \times 0 = 6$$

$$\Rightarrow y = 6$$

$$x = 6, \quad y = 0$$

Use the following table to draw the graph.

$$v = -3$$

Plotting the two points A(0,-3) and B(6,0) equation (i) can be drawn.

Graph of the equation....(ii):

$$3x - 6y = 0$$
 .....(ii)

Putting x = 0 in equation (ii), we get:

$$\Rightarrow 3 \times 0 - 6y = 0$$

$$\Rightarrow y = 0$$

$$x = 0, y = 0$$

Putting x=2 in equation (ii), we get:

$$\Rightarrow 3 \times 2 - 6y = 0$$

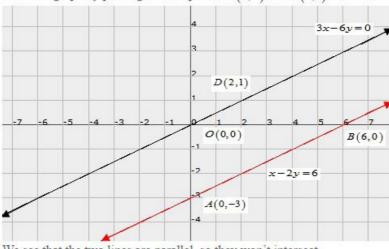
$$\Rightarrow y = 1$$

$$x = 2, y = 1$$

Use the following table to draw the graph.

y 0

Draw the graph by plotting the two points O(0,0) and O(2,1) from table.



We see that the two lines are parallel, so they won't intersect

Hence there is no solution

Pair of Linear Equations in Two varibles Ex 3.2 Q7

## Answer:

The given equations are

$$x + y = 4 \qquad \dots (i)$$

$$2x-3y=3$$
 .....(ii)

Putting x = 0 in equation (i), we get:

$$\Rightarrow$$
 0 +  $y = 4$ 

$$\Rightarrow y = 4$$

$$\therefore x = 0, \quad y = 4$$

Putting y = 0 in equation (i,) we get

$$\Rightarrow x + 0 = 4$$

$$\Rightarrow x = 4$$

$$\therefore x = 4, \quad y = 0$$

Use the following table to draw the graph.

Draw the graph by plotting the two points A(4,0) and B(4,0) from table.

Graph of the equation....(ii):

$$2x - 3y = 3$$
 .....(ii)

Putting x = 0 in equation (ii) we get

$$\Rightarrow 0-3y=3$$

$$\Rightarrow y = -1$$

$$\therefore x = 0, \qquad y = -1$$

Putting y = 0 in equation (ii), we get:

$$\Rightarrow 2x - 0 = 3$$

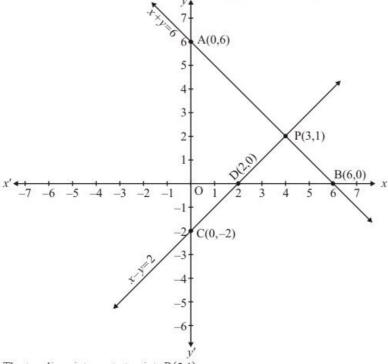
$$\Rightarrow x = 3/2$$

$$\therefore x = 3/2, \qquad y = 0$$

Use the following table to draw the graph.

$$\begin{array}{cccc}
x & 0 & 3/2 \\
y & -1 & 0
\end{array}$$

Draw the graph by plotting the two points C(0,-1) and D(3/2,0) from table.



The two lines intersect at points P(3,1).

Hence x = 3, y = 1 is the solution

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