

Pair of Linear Equations in Two varibles Ex 3.2 Q8

Answer:

The given equations are:

$$2x + 3y = 4 \qquad \dots (i)$$

$$x - y + 3 = 0$$
(ii)

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

$$\Rightarrow 2 \times 0 + 3y = 4$$

$$\Rightarrow y = 4/3$$

$$x = 0$$
, $y = 4/3$

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

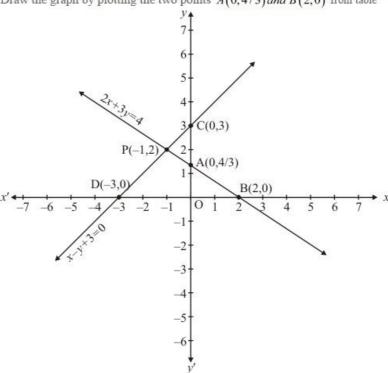
$$\Rightarrow 2x + 3 \times 0 = 4$$

$$\Rightarrow x = 2$$

$$x = 2, y = 0$$

Use the following table to draw the graph.

Draw the graph by plotting the two points A(0,4/3) and B(2,0) from table



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

$$x - y = -3 \qquad \dots (ii)$$

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

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

$$\Rightarrow y = 3$$

$$x = 0, y = 3$$

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

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

$$\Rightarrow x = -3$$

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

Use the following table to draw the graph.

$$x = 0$$
 -3

Draw the graph by plotting the two points C(0,3) and D(-3,0) from table The two lines intersect at points P(-1,2).

Hence, x = -1 and y = 2 is the solution.

Pair of Linear Equations in Two varibles Ex 3.2 Q9

Answer:

The given equations are:

$$2x-3y+13=0$$
(i)

$$3x-2y+12=0$$
(ii)

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

$$\Rightarrow 2 \times 0 - 3y = -13$$

$$\Rightarrow y = 13/3$$

$$x = 0$$
, $y = 13/3$

Putting y = 0 in equation (i) we get

$$\Rightarrow 2x-3\times0=-13$$

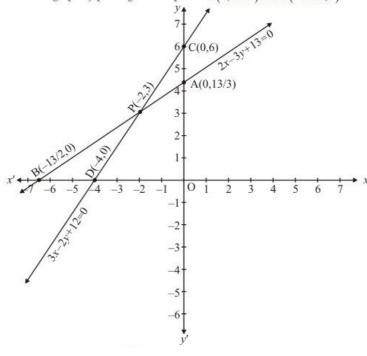
$$\Rightarrow x = -13/2$$

$$x = -13/2$$
, $y = 0$

Use the following table to draw the graph.

$$x = 0$$
 $-13/2$

Draw the graph by plotting the two points A(0,13/2) and B(-13/2,0) from table.



Graph of the equation...(ii):

$$3x-2y=-12$$
(ii)

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

$$\Rightarrow$$
 3×0-2y = -12

$$\Rightarrow y = 6$$

$$x = 0, y = 6$$

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

$$\Rightarrow$$
 3x - 2 × 0 = -12

$$\Rightarrow x = -4$$

$$x = -4,$$
 $y = 0$

Use the following table to draw the graph.

$$x = 0$$
 -4

Draw the graph by plotting the two points C(0,6) and D(-4,0) from table.

The two lines intersect at points P(-2,3).

Hence, x = -2 and y = 3 is the solution.

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