

Pair of Linear Equations in Two varibles Ex 3.2 Q3

Answer:

The given equations are

$$3x + y + 1 = 0$$
(i)

$$2x-3y+8=0$$
(ii)

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

$$\Rightarrow$$
 3×0+ y = -1

$$\Rightarrow y = -1$$

$$x = 0, y = -1$$

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

$$\Rightarrow$$
 3 x + 0 = -1

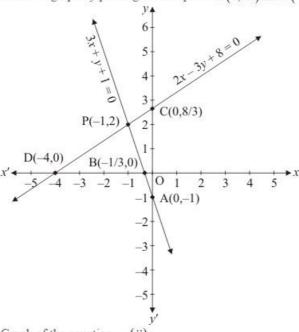
$$\Rightarrow x = -1/3$$

$$x = -1/3$$
, $y = 0$

Use the following table to draw the graph.

Х	0	-1/3
У	-1	0

Draw the graph by plotting the two points A(0,-1) and B(-1/3,0) from table.



Graph of the equation...(ii):

$$2x-3y=-8$$
(ii)

Putting x = 0 in equation (ii) we ge

$$\Rightarrow 2 \times 0 - 3y = -8$$

$$\Rightarrow y = 8/3$$

$$x = 0$$
, $y = 8/3$

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

$$\Rightarrow 2x - 3 \times 0 = -8$$

$$\Rightarrow x = -4$$

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

Use the following table to draw the graph.

X	0	-4
у	8/3	0

Draw the graph by plotting the two points C(0.8/3) and D(-4.0) from table.

The two lines intersect at points P(-1,2).

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

****** END ******