Pair of Linear Equations in Two varibles Ex 3.2 Q8

Answer :

The given equations are:

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

$x-y+3=0 \qquad .....(ii)$

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

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

$\Rightarrow y=4/3$

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

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

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

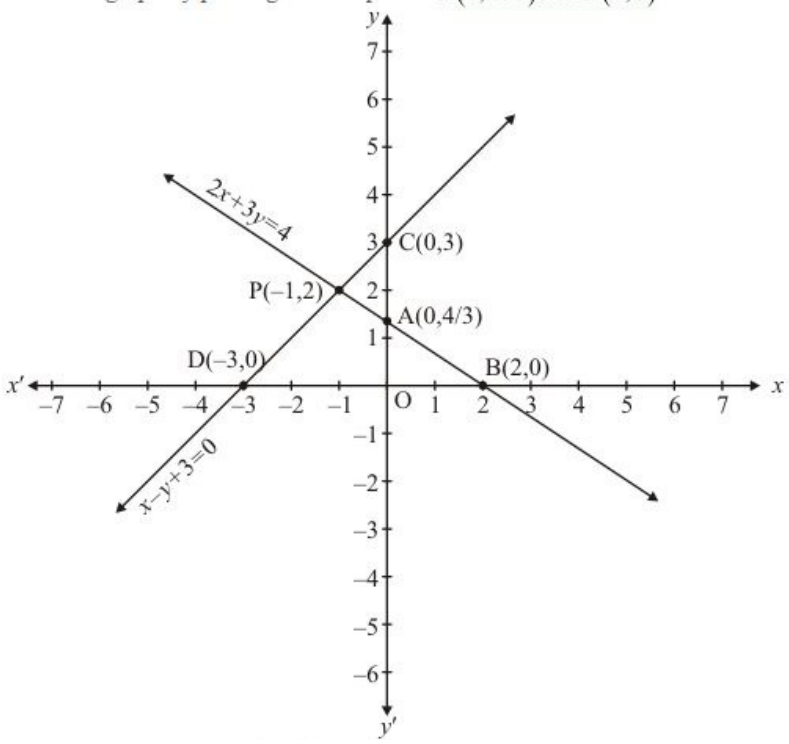
$\Rightarrow x=2$

$x=2, \qquad y=0$

Use the following table to draw the graph.

x	0	2
y	$4/3$	0

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



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

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

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

$\Rightarrow 0-y=-3$

$\Rightarrow y=3$

$x=0, \quad y=3$

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

$\Rightarrow x-0=-3$

$\Rightarrow x=-3$

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

Use the following table to draw the graph.

x	0	-3
y	3	0

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, $\boxed{x=-1}$ and $\boxed{y=2}$ is the solution.

Pair of Linear Equations in Two varibles Ex 3.2 Q9

Answer :

The given equations are:

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

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

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

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

$\Rightarrow y=13/3$

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

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

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

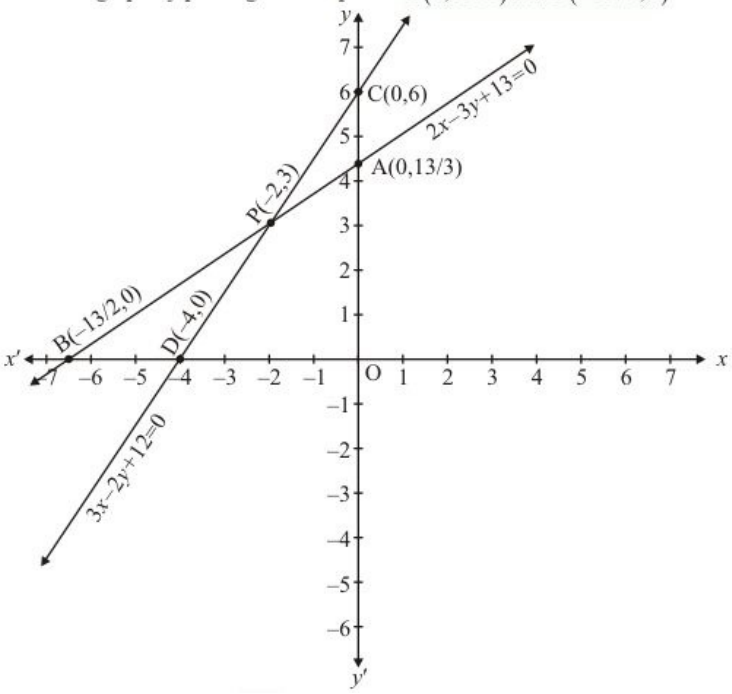
$\Rightarrow x=-13/2$

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

Use the following table to draw the graph.

x	0	$-13/2$
y	$13/3$	0

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



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

$3x-2y=-12 \quad .....(ii)$

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

$\Rightarrow 3\times 0-2y=-12$

$\Rightarrow y=6$

$x=0, \quad y=6$

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

$\Rightarrow 3x-2\times 0=-12$

$\Rightarrow x=-4$

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

Use the following table to draw the graph.

x	0	-4
y	6	0

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

The two lines intersect at points $\mathrm{P}(-2,3)$.

Hence, $\boxed{x=-2}$ and $\boxed{y=3}$ is the solution.

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