



Pair of Linear Equations in Two variables Ex 3.2 Q22

**Answer :**

(i) The given equations are

$$2x - 5y + 4 = 0 \quad \dots\dots(i)$$

$$2x + y - 8 = 0 \quad \dots\dots(ii)$$

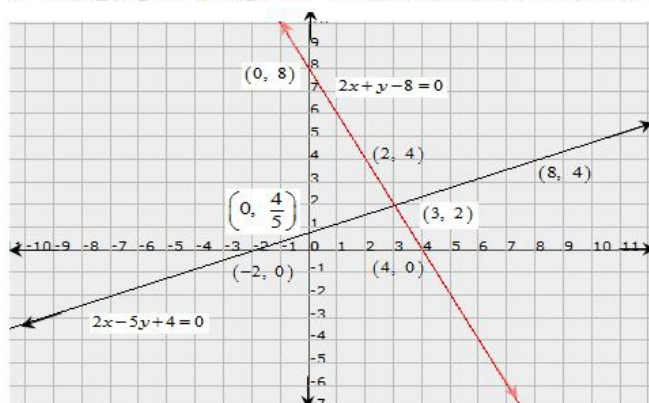
The two points satisfying (i) can be listed in a table as,

$x$	-2	8
$y$	0	4

The two points satisfying (ii) can be listed in a table as,

$x$	4	2
$y$	0	4

Now, graph of equations (i) and (ii) can be drawn as,



It is seen that the solution of the given system of equations is given by  $x = 3, y = 2$ .

Also, it is observed that the lines (i) and (ii) meet the  $y$ -axis at the points  $\left(0, \frac{4}{5}\right)$  and  $(0, 8)$  respectively.

(ii) The given equations are

$$3x + 2y = 12 \quad \dots\dots(i)$$

$$5x - 2y = 4 \quad \dots\dots(ii)$$

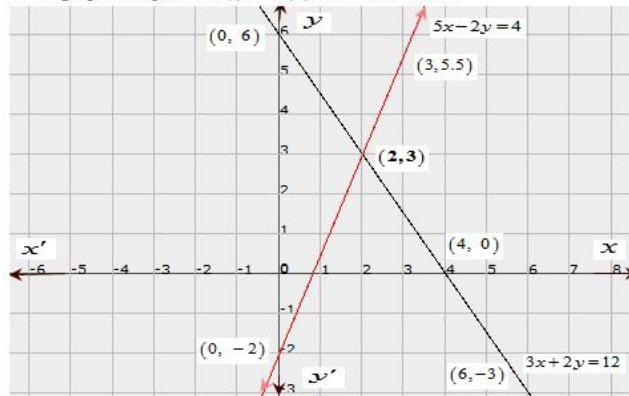
The two points satisfying (i) can be listed in a table as,

$x$	4	6
$y$	0	-3

The two points satisfying (ii) can be listed in a table as,

$x$	3	2
$y$	5.5	3

Now, graph of equations (i) and (ii) can be drawn as,



It is seen that the solution of the given system of equations is given by  $x = 2, y = 3$ .

Also, it is observed that the lines (i) and (ii) meet the  $y$ -axis at the points  $(0, 6)$  and  $(0, -2)$  respectively.

(iii) The given equations are

$$2x + y - 11 = 0 \quad \text{.....(i)}$$

$$x - y - 1 = 0 \quad \text{.....(ii)}$$

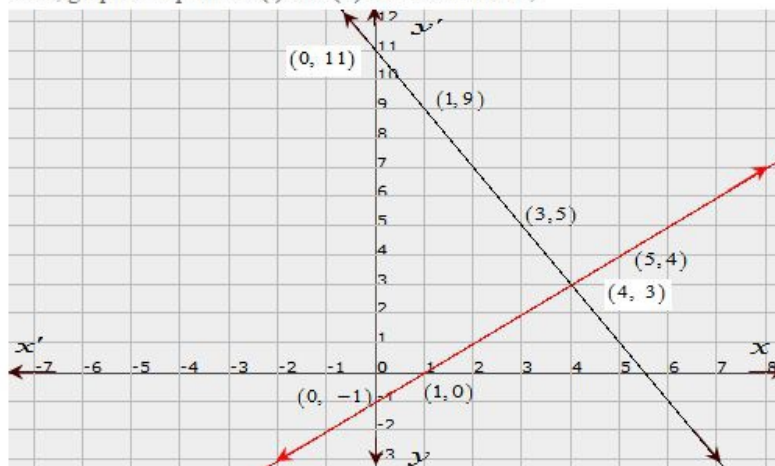
The two points satisfying (i) can be listed in a table as,

$x$	3	1
$y$	5	9

The two points satisfying (ii) can be listed in a table as,

$x$	1	5
$y$	0	4

Now, graph of equations (i) and (ii) can be drawn as,



\*\*\*\*\* END \*\*\*\*\*