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# RS Aggarwal Solutions for Class 9 Maths Chapter - 4 Linear Equations in Two Variables

## EXERCISE 4(A)

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1. Express each of the following equations in the form ax + by + c = 0 and indicate the values of a, b, c in each case.

- 3x + 5y = 7.5(i)
- $2x-\frac{y}{5}+6=0$ **(ii)**
- 3y 2x = 6(iii)
- 4x = 5y(iv)
- **(v)**
- $\frac{x}{5} \frac{y}{6} = 1$

(vi) 
$$\sqrt{2}x + \sqrt{3}y = 5$$

#### Solution:

- It is given 3x + 5y = 7.5(i) We can also write it as 3x + 5y - 7.5 = 0We know that 7.5 can be written as  $\frac{1}{2}$ So we get, 3x + 5y - 7.5 = 0 $3x + 5y - (\frac{15}{2}) = 0$ Multiplying the equation with 2 we get, 6x + 10v - 15 = 0By comparing the equation with ax + by + c = 0The value of a = 6, b = 10 and c = -15
- (ii) It is given

 $2x - \frac{y}{5} + 6 = 0$ Multiplying the equation with 5 we get, 10x - y + 30 = 0By comparing the equation with ax + by + c = 0The value of a = 10, b = -1 and c = 30

It is given 3y - 2x = 6(iii) We can also write it as 3y - 2x - 6 = 0-2x + 3y - 6 = 0By comparing the equation with ax + by + c = 0The value of a = -2, b = 3 and c = -6

(iv) It is given

4x = 5yWe can also write it as 4x - 5v = 0By comparing the equation with ax + by + c = 0The value of a = 4, b = -5 and c = 0

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- (v) It is given  $\frac{x}{5} - \frac{y}{6} = 1$ The LCM of 5 and 6 is 30 So we get,  $\frac{6x - 5y}{30} = 1$ Multiplying the equation with 30 we get 6x - 5y = 30We can also write it as 6x - 5y - 30 = 0By comparing the equation with ax + by + c = 0The value of a = 6, b = -5 and c = -30
- (vi) It is given  $\sqrt{2}x + \sqrt{3}y = 5$ We can also write it as  $\sqrt{2}x + \sqrt{3}y - 5 = 0$ By comparing the equation with ax + by + c = 0The value of  $a = \sqrt{2}$ ,  $b = \sqrt{3}$  and c = -5
- 2. Express each of the following equations in the form ax + by + c = 0 and indicate the values of a, b, c in each case.
- (i) x = 6(ii) 3x - y = x - 1
- (ii) 3x y = x(iii) 2x + 9 = 0
- (iii) 2x + y = -(iv) 4y = 7
- (iv) xy = 7(v) x + y = 4
- (v)  $\frac{x}{2} \frac{y}{2} = \frac{1}{6} + y$

#### Solution:

(i) It is given x = 6 We can also write it as x - 6 = 0 So it can be written as 1x + 0y - 6 = 0 By comparing the equation with ax + by + c = 0 The value of a = 1, b = 0 and c = -6
(ii) It is given 3x - y = x - 1 We can also write it as

We can also write it as 3x - x - y + 1 = 0 2x - y + 1 = 0By comparing the equation with ax + by + c = 0The value of a = 2, b = -1 and c = 1

(iii) It is given

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2x + 9 = 0So it can be written as 2x + 0y + 9 = 0By comparing the equation with ax + by + c = 0The value of a = 2, b = 0 and c = 9

- (iv) It is given 4y = 7We can also write it as 0x + 4y - 7 = 0By comparing the equation with ax + by + c = 0The value of a = 0, b = 4 and c = -7
- (v) It is given x + y = 4We can also write it as x + y - 4 = 0By comparing the equation with ax + by + c = 0The value of a = 1, b = 1 and c = -4
- (vi) It is given  $\frac{x}{2} - \frac{y}{3} = \frac{1}{6} + y$ We can also write it as  $\frac{x}{2} - \frac{y}{3} - y = \frac{1}{6}$ LCM of 2 and 3 is 6 we get  $\frac{3x - 2y - 6y}{6} = \frac{1}{6}$ Multiplying by 6 we get 3x - 2y - 6y = 1So we get 3x - 8y - 1 = 0By comparing the equation with ax + by + c = 0The value of a = 3, b = -8 and c = -1
- **3.** Check which of the following are the solutions of the equation 5x 4y = 20.
- (i) (4, 0)(ii) (0, 5)(iii)  $(-2, \frac{5}{2})$ (iv) (0, -5)(v)  $(2, -\frac{5}{2})$ Solution:

#### Solution:

(i) It is given 5x - 4y = 20Now by substituting (4, 0) in the place of x and y We know that the LHS

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= 5x - 4y =5(4) - 4(0)On further calculation = 20 = RHSTherefore, (4, 0) is the solution of 5x - 4y = 20(ii) It is given 5x-4y = 20Now by substituting (0, 5) in the place of x and y We know that the LHS = 5x - 4y =5(0) - 4(5)On further calculation = - 20 ≠ RHS Therefore, (0, 5) is not the solution of 5x - 4y = 20(iii) It is given 5x - 4y = 20Now by substituting  $(-2,\frac{5}{2})$  in the place of x and y We know that the LHS = 5x - 4y $=5(-2)-4(\frac{5}{2})$ On further calculation = - 10 - 10 = - 20  $\neq RHS$ Therefore,  $(-2,\frac{3}{2})$  is not the solution of 5x - 4y = 20It is given 5x(iv) -4y = 20Now by substituting (0, -5) in the place of x and y We know that the LHS = 5x - 4y =5(0) - 4(-5)On further calculation = 20= RHS Therefore, (0, -5) is the solution of 5x - 4y = 20It is given (v)

5x - 4y = 20

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Now by substituting  $(2, -\frac{5}{2})$  in the place of x and y We know that the LHS = 5x - 4y=  $5(2) - 4(-\frac{5}{2})$ On further calculation = 10 + 10= 20= RHS Therefore, (0, -5) is the solution of 5x - 4y = 20

4. Find five different solutions of each of the following equations.
(a) 2x - 3y = 6
(b) <sup>2x</sup>/<sub>5</sub> + <sup>3y</sup>/<sub>10</sub> = 3
(c) 3y = 4x
Solution:

(a) It is given 2x - 3y = 6

> Now substitute x = 0 in the equation 2(0) - 3y = 60 - 3v = 6On further calculation 3v = -6Dividing by 3 we get v = -2Therefore, (0, -2) is the solution of 2x - 3y = 6Now substitute y = 0 in the equation 2x - 3(0) = 62x = 6By division x = 3Therefore, (3, 0) is the solution of 2x - 3y = 6Now substitute x = 6 in the equation 2(6) - 3y = 612 - 3y = 6On further calculation 3y = 6By division y = 2Therefore, (6, 2) is the solution of 2x - 3y = 6

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Now substitute y = 4 in the equation 2x - 3(4) = 6 2x - 12 = 6On further calculation 2x = -6By division x = -3Therefore, (-3, 4) is the solution of 2x - 3y = 6

Now substitute x = -3 in the equation 2(-3) - 3y = 6 -6 - 3y = 6On further calculation -3y = 12Dividing by 3 we get y = -4Therefore, (-3, -4) is the solution of 2x - 3y = 6

(b) It is given

 $\frac{2x}{5} + \frac{3y}{10} = 3$ 

LCM of 5 and 10 is 10 So we get  $\frac{4x+3y}{10} = 3$ Multiplying by 10 we get 4x + 3y = 30

Now substitute x = 0 in the equation 4(0) + 3y = 30 3y = 30By division y = 10

Therefore, (0, 10) is the solution of  $\frac{2x}{5} + \frac{3y}{10} = 3$ 

Now substitute x = 3 in the equation 4(3) + 3y = 30 12 + 3y = 30 On further calculation 3y = 18By division y = 6Therefore, (3, 6) is the solution of  $\frac{2x}{5} + \frac{3y}{10} = 3$ 

Now substitute x = -3 in the equation

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4(-3) + 3y = 30-12 + 3y = 30On further calculation 3y = 42By division y = 14Therefore, (-3, 14) is the solution of  $\frac{2x}{5} + \frac{3y}{10} = 3$ Now substitute y = 2 in the equation 4x + 3(2) = 304x + 6 = 30On further calculation 4x = 24By division x = 6Therefore, (6, 2) is the solution of  $\frac{2x}{5} + \frac{3y}{10} = 3$ Now substitute y = -2 in the equation 4x + 3(-2) = 304x - 6 = 30On further calculation 4x = 36By division x = 9Therefore, (9, -2) is the solution of  $\frac{1}{5}$ (c) It is given 3v = 4xNow substitute x = 3 in the equation 3y = 4(3)3v = 12On further calculation v = 4Therefore, (3, 4) is the solution of 3y = 4xNow substitute x = -3 in the equation 3y = 4(-3)3y = -12On further calculation y = -4Therefore, (-3, -4) is the solution of 3y = 4x

Now substitute x = 9 in the equation

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3y = 4(9) 3y = 36On further calculation y = 12Therefore, (9, 12) is the solution of 3y = 4xNow substitute y = 8 in the equation 3(8) = 4x

3(8) = 4x 24 = 4xBy division x = 6Therefore, (6, 8) is the solution of 3y = 4x

Now substitute y = -8 in the equation 3(-8) = 4x -24 = 4xBy division x = -6Therefore, (-6, 8) is the solution of 3y = 4x

#### 5. If x = 3 and y = 4 is a solution of the equation 5x - 3y = k, find the value of k. Solution:

It is given 5x - 3y = kNow by substituting the value of x and y in the equation 5(3) - 3(4) = kSo we get, 15 - 12 = k k = 3Therefore, the value of k is 3.

6. If x = 3k + 2 and y = 2k - 1 is a solution of the equation 4x - 3y + 1 = 0, find the value of k. Solution:

It is given 4x - 3y + 1 = 0Now by substituting the value of x and y in the equation 4(3k + 2) - 3(2k - 1) + 1 = 0On further calculation 12k + 8 - 6k + 3 + 1 = 0 6k + 12 = 0So we get 6k = -12By division k = -2

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7. The cost of 5 pencils is equal to the cost of 2 ballpoints. Write a linear equation in two variables to represent this statement. (Take the cost of a pencil to be □ x and that of a ballpoint to be □ y). Solution:

Consider cost of pencil as  $\Box$  x and cost of ballpoint as  $\Box$  y So we can write the cost of 5 pencils as  $\Box$  5x And the cost of 2 ballpoints as  $\Box$  2y We can write it as 5x = 2yTherefore the linear equation can be written as 5x - 2y = 0

#### EXERCISE 4(B)

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1. Draw the graph of each of the following equations.

- (i) x = 4
- (ii) x + 4 = 0
- (iii) y = 3
- (iv) y = -3 (v) x = -2
- $(vi) \qquad x=5$
- (vii) y + 5 = 0 (viii) y = 4 Solution:
- (i) On the graph x = 4 is a line which is parallel to the y axis to the right at 4 units distance.



(iii) On the graph y = 3 is a line which is parallel to the x axis which is above at 3 units distance.





(iv) On the graph y = -3 is a line which is parallel to the x axis which is below at 3 units distance.



(v) On the graph x = -2 is a line which is parallel to the y axis to the left at 2 units distance.





(vi) On the graph x = 5 is a line which is parallel to the y axis to the right at 5 units distance.





(viii) On the graph y = 4 is a line which is parallel to the x axis which is above at 4 units distance.



(ii)

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Substituting x = -1 in the given equation y = 3(-1) So we get y = -3

x	1	-1
У	3	-3

Now draw a graph using the points A (1, 3) and B (-1, -3) Join the points AB through a line and find the value of y.



Substituting x = 2 in the given equation y = 3(2) So we get

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y = 6

х	1	2
У	3	6

Now draw a graph using the points A (1, 3) and B (2, 6) Join the points PQ through a line and find the value of y.



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So we get x - 3 = 0x = 3

x	1	3
У	1	0

Now draw a graph using the points A(1, 1) and B(3, 0)Join the points PQ through a line and find the value of y.



Based on the graph,

Consider x = 5 on X-axis as point Q

Now the line joining AB and a point on the Y-axis i.e. M gives the value of y Therefore, when x = 5 the value of y = -1.

(ii) It is given x + 2y - 3 = 0

Substituting x = -1 in the given equation (-1) + 2y - 3 = 0So we get 2y - 4 = 0 2y = 4Dividing by 2 we get y = 2

Substituting x = 1 in the given equation 1 + 2y - 3 = 0So we get

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2y - 2 = 0 2y = 2Dividing by 2 we get y = 1

x	-1	1
У	2	1

Now draw a graph using the points A (-1, 2) and B (1, 1) Join the points PM through a line and find the value of y.



Consider x = -5 on X-axis as point M Now the line joining AB and a point on the Y-axis gives the value of y Therefore, when x = -5 the value of y = 4.

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4. Draw the graph of the equation, 2x - 3y = 5.
From your graph, find (i) The
value of y when x = 4 (ii) The
value of x when y = 3.
Solution:
It is given
2x - 3y = 5
We can write it as
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3y = 2x - 5So we get  $y = \frac{2x - 5}{3}$ 

Substituting x = 4 in the given equation

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 $y = \frac{2(4)-5}{3}$ So we get  $y = \frac{8-5}{3}$  $y = \frac{3}{3}$ By division we get y = 1Substituting x = -2 in the given equation  $y = \frac{2(-2)-5}{3}$ So we get  $y = \frac{-4-5}{3}$ 

 $y = -\frac{3}{3}$ By division we get y = -3

x	4	-2
У	1	-3

Now draw a graph using the points (4, 1) and (-2, -3) Join the points through a line and find the value of y.



Based on the graph, Consider
 x = 4 on X-axis
 Now the line joining the two points and a point on the Y-axis gives the value of y

Now the line joining the two points and a point on the Y-axis gives the value of y Therefore, when x = 4 the value of y = 1.

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(ii)

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Based on the graph, Consider y = 3 on Y-axis Now the line joining the two points and a point on the X-axis gives the value of x Therefore, when y = 3 the value of x = 7.

#### **5.** Draw the graph of the equation, 2x + y = 6.

Find the coordinates of the point where the graph cuts the x – axis. Solution: It is given 2x + y = 6We can also write it as 2x + y - 6 = 0

Substituting x = 1 in the given equation 2(1) + y - 6 = 0So we get y - 4 = 0y = 4

Substituting x = 2 in the given equation 2(2) + y - 6 = 0So we get y - 2 = 0y = 2

x	1	2
У	4	2

Now draw a graph using the points (1, 4) and (2, 2)

Join the points through a line and find the coordinates which cuts x-axis.





From the graph we know that the line joining the two points cut the x-axis at a point P which is at the right of y-axis at 3 units distance.

Therefore, the coordinates of the point is P(3, 0).

#### 6. Draw the graph of the equation, 3x + 2y = 6. Find the coordinates of the point where the graph cuts the y – axis. Solution:

It is given 3x + 2y = 6We can also write it as 2y = 6 - 3x $y = \frac{6-3x}{2}$ Substituting x = 2 in the given equation  $y = \frac{6-3(2)}{2}$ So we get  $y = \frac{6-6}{3}$ y = 0Substituting x = 4 in the given equation  $y = \frac{6-3(4)}{2}$ 2 So we get  $y = \frac{6-12}{2}$  $y = \frac{-6}{2}$ By division y = -3

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x	2	4
У	0	-3

Now draw a graph using the points (2, 0) and (4, -3)Join the points through a line and find the coordinates which cuts y-axis.



From the graph we know that the line joining the two points cut the y-axis at a point P which is above x-axis at 3 units distance.

Therefore, the coordinates of the point is P(0, 3).

#### 7. Draw the graphs of the equations 3x - 2y = 4 and x + y - 3 = 0. On the same graph paper, find the coordinates of the point where the two graph lines intersect. Solution:

It is given 3x - 2y = 4We can also write it as 2y = 3x - 4 $y = \frac{3x-4}{2}$ 

Substituting x = 2 in the given equation  $y = \frac{3(2)-4}{2}$ So we get  $y = \frac{6-4}{2}$  $y = \frac{2}{2}$  WISDOMISING KNOWLEDGE

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By division

y = 1

Substituting x = -2 in the given equation  $y = \frac{3(-2)-4}{2}$  So we get  $y = \frac{-6-4}{2}$   $y = \frac{-10}{2}$ By division y = -5

х	2	-2
У	1	-5

Now draw a graph using the points A (2, 1) and B (-2, -5) Join the points AB through a line and extend in both the directions. It is given

x + y - 3 = 0We can also write it as y = 3 - x

Substituting x = 1 in the given equation y = 3 - 1So we get y = 2

Substituting x = -1 in the given equation

y = 3 - (-1)So we get

y = 4

x	1	-1
У	2	4

Now draw a graph using the points C(1, 2) and D(-1, 4)Join the points CD through a line and extend in both the directions.





Therefore, the coordinates of the point where the two graph lines intersect is A (2, 1).

- 8. Draw the graph of the line 4x + 3y = 24.
- (i) Write the coordinates of the points where this line intersects the x-axis and the y-axis.
- (ii) Use this graph to find the area of the triangle formed by the graph line and the coordinate axes. Solution:

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It is given
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4x + 3y = 24We can also write it as 3y = 24 - 4x $y = \frac{24-4x}{3}$ 

Substituting x = 0 in the given equation  $y = \frac{24-4(0)}{3}$ So we get

 $y = \frac{24}{3}$ By division y = 8

Substituting x = 3 in the given equation  $y = \frac{24-4(3)}{3}$ So we get  $y = \frac{24-12}{3}$   $y = \frac{12}{3}$ By division y = 4

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х	0	3
У	8	4

Now draw a graph using the points A (0, 8) and B (3, 4) Join the points AB through a line and extend in both the directions.



- (i) From the graph we know that the line AB intersects at point C (6, 0) on the x-axis and A (0, 8) on the y-axis.
- (ii) From the graph Area of the triangle = Area of  $\triangle$  AOC =  $\frac{1}{2} \times b \times h$ =  $\frac{1}{2} \times 6 \times 8$

On further calculation we get Area of the triangle = 24 sq. units

9. Draw the graphs of the lines 2x + y = 6 and 2x - y + 2 = 0. Shade the region bounded by these lines and the x-axis. Find the area of the shaded region. Solution:

It is given 2x + y = 6We can also write it as y = 6 - 2x

Substituting x = 1 in the given equation y = 6 - 2(1)So we get

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y = 6 - 2y = 4

Substituting x = 2 in the given equation y = 6 - 2(2)So we get y = 6 - 4y = 2

x	1	2
у	4	2

Now draw a graph using the points A (1, 4) and B (2, 2) Join the points AB through a line and extend in both the directions.

It is given

2x - y + 2 = 0We can also write it as y = 2x + 2

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Substituting x = -1 in the given equation

y = 2(-1) + 2

So we get

y = -2 + 2

y = 0
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Substituting x = 2 in the given equation

y = 2(2) + 2So we get

y = 4 + 2

y = 6

x	-1	2
У	0	6

Now draw a graph using the points C (-1, 0) and D (2, 6)Join the points CD through a line and extend in both the directions.

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From the graph we know that the two lines AB and CD intersect at A (1, 4) Draw a perpendicular on X-axis from point A and name it as AM PM is the y-coordinate of A (1, 4) = 4 and CP = 4 We know that area of shaded region = area of  $\triangle$  ACP

$$= \frac{1}{2} \times b \times h$$
$$= \frac{1}{2} \times CP \times AM$$

By substituting the values we get

Area of shaded region  $=\frac{1}{2} \times 4 \times 4 = 8$  sq. units Therefore the area of shaded region is 8 sq. units.

10. Draw the graphs of the lines x - y = 1 and 2x + y = 8. Shade the areas formed by these two lines and the y-axis. Also, find this area.

#### Solution:

It is given x - y = 1We can also write it as y = x - 1

Substituting x = 1 in the given equation y = 1 - 1So we get y = 0

Substituting x = 2 in the given equation y = 2 - 1So we get y = 1

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х	1	2
у	0	1

Now draw a graph using the points A (1, 0) and B (2, 1) Join the points AB through a line and extend in both the directions.

It is given

2x + y = 8We can also write it as y = 8 - 2x

Substituting x = 2 in the given equation y = 8 - 2(2)So we get y = 8 - 4y = 4

Substituting x = 3 in the given equation y = 8 - 2(3)

So we get y = 8 - 6y = 2

х	2	3
У	4	2

Now draw a graph using the points C(2, 4) and D(3, 2)Join the points CD through a line and extend in both the directions.



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From the graph we know that the lines AB and CD intersect at D (3, 2) Draw a perpendicular from point D on the y-axis and name it as DM We know that DM is the x-coordinate of D (3, 2) = 3 and EF = 9 So the area of shaded region = area of  $\Delta$  DEF

$$= \frac{1}{2} \times b \times h$$
$$= \frac{1}{2} \times EF \times DM$$

By substituting the values we get

Area of shaded region  $=\frac{1}{2} \times 9 \times 3 = 13.5$  sq. units Therefore the area of shaded region is 13.5 sq. units.

11. Draw the graph for each of the equations x + y = 6 and x - y = 2 on the same graph paper and find the coordinates of the point where the two straight lines intersect. Solution:

It is given x + y = 6We can also write it as

y = 6 - x

Substituting x = 2 in the given equation y = 6 - 2So we get y = 4

Substituting x = 3 in the given equation y = 6 - 3So we get y = 3

х	2	3	7
у	4	3	

Now draw a graph using the points A (2, 4) and B (3, 3) Join the points AB through a line and extend in both the directions.

It is given $x - y =$	26
We can also write it as $y = x - x - y = x - $	26
Substituting $x = 3$ in the given equation	26
y = 3 -	28

So we get y = 1

Substituting x = 4 in the given equation

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y = 4 - 2So we get y = 2

x	3	4
у	1	2

Now draw a graph using the points C (3, 1) and D (4, 2)Join the points CD through a line and extend in both the directions.



Therefore, the coordinates of the point where the two straight lines intersect is D(4, 2).

# 12. Two students A and B contributed $\Box$ 100 towards the Prime Minister's Relief fund to help the earthquake victims. Write the linear equation to satisfy the above data and draw its graph. Solution:

Consider the amount contributed by two students A and B is  $\Box$  x and  $\Box$  y. Total amount contributed by both A and B =  $\Box$  100 According to the question x + y = 100 We can write it as y = 100 - x

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Substitute x = 25 in the given equation y = 100 - 25 So we get y = 75

Substitute x = 50 in the given equation y = 100 - 50 So we get y = 50

x	25	50
У	75	50

Now draw a graph using the points A (25, 75) and B (50, 50) Join the points AB through a line and extend in both the directions.

