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Class 09. Sub-.Maths

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1. Draw the graph of each of the following linear equations in two variables:

(i) x+y = 4

Solution:

To draw a graph of linear equations in two variables, let us find out the points to plot.

To find out the points, we have to find the values which x and y can have, satisfying the equation.

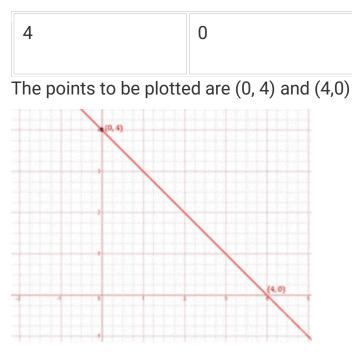
Here,

x+y = 4

Substituting the values for x,

When x = 0, x+y = 4 0+y = 4 y = 4 When x = 4, x+y = 4 4+y = 4 y = 4-4 y = 0

X	У
0	4





Solution:

To draw a graph of linear equations in two variables, let us find out the points to plot.

To find out the points, we have to find the values which x and y can have, satisfying the equation.

Here,

x-y = 2

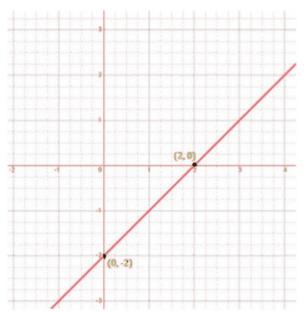
Substituting the values for x,

When x = 0, x-y = 2 0 - y = 2 y = -2When x = 2, x-y = 2 2-y = 2- y = 2-2 -y = 0

y = 0

x	У
0	- 2
2	0

The points to be plotted are (0, -2) and (2, 0)





Solution:

To draw a graph of linear equations in two variables, let us find out the points to plot.

To find out the points, we have to find the values which x and y can have, satisfying the equation.

Here,

y = 3x

Substituting the values for x,

When x = 0, y = 3x y = 3×0 y = 0 When x = 1, y = 3x y = 3×1 y = 3

X	У
0	0
1	3

The points to be plotted are (0, 0) and (1, 3)