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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,

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

y = 4

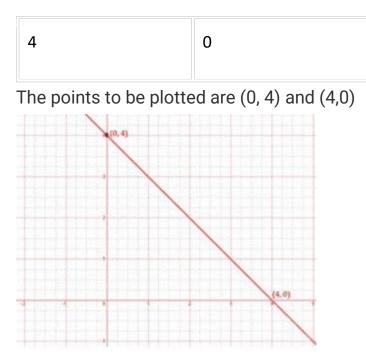
When x = 4,

x+y = 4 4+y

= 4 y = 4-4

y = 0

x y
```





Solution:

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

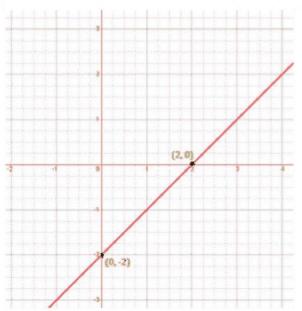
To find out the points, we have to find the values which x and y can have,

satisfying the equation. Here, x-y = 2

Substituting the values for x, When x = 0, $x-y = 2 \ 0 - y = 2$ y = -2 When x = 2, x-y = 22-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

×	У
0	0
1	3

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