

Chapter 04

LINEAR EQUATIONS IN TWO VARIABLES

Graph Of Linear Equations In Two Variables:

Procedure as follows to draw graphs of linear equations in two variables “ x ” and “ y ”:

Step- 1:

Rewrite the given equation with ‘ y ’ as the subject.

Step- 2:

Select any 3-convenient values of ‘ x ’ and find the corresponding values of ‘ y ’

Step- 3:

Make table of values.

Step- 4:

Draw the axes on the graph paper and choose suitable scale.

Step- 5:

Plot the points on the graph paper.

Step- 6:

Join the points. They should lie on a straight line.

Example:

Draw the graph of Linear equation $x + 2y - 3 = 0$.

Step- 1: $x + 2y - 3 = 0$

$$\Rightarrow 2y = -x + 3$$

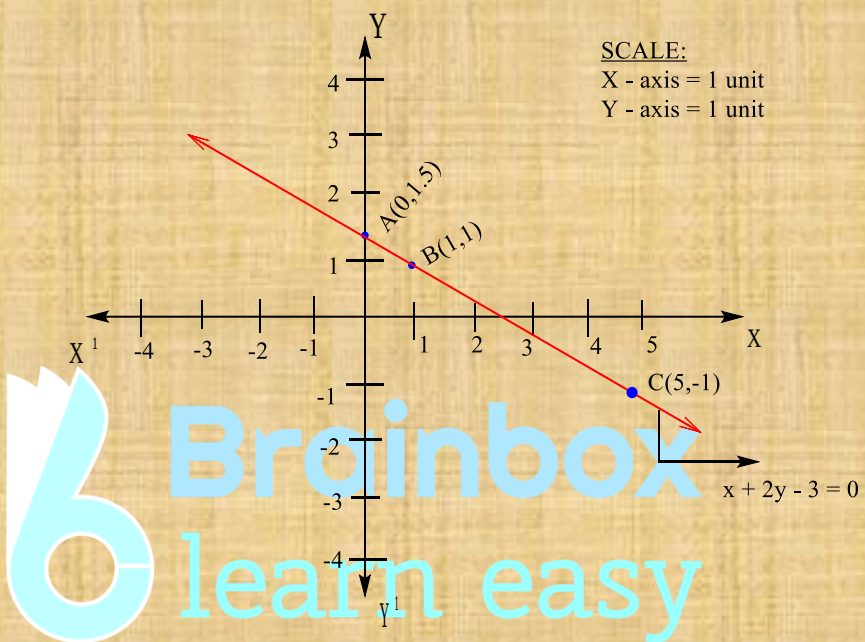
$$\Rightarrow y = \frac{-x + 3}{2}$$

Step- 2: Taking convenient values of ‘ x ’.

x	0	1	5
$y = \frac{-x+3}{2}$	1.5	1	-1

Step- 3: The co-ordinates are: A (0,1.5), B (1,1), C(5,-1)

Step- 4 & 5 & 6:



We get a straight line.