COVID -19 Sathi Pasala

4th week July

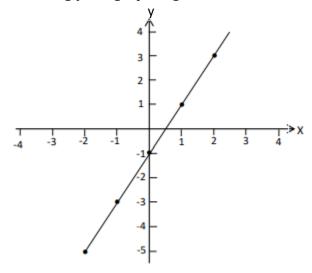
Grade 9- Graphs

Graphs of the functions of the form y=mx+c and functions given by ax+by=c

• Example: Drawing a graph of the function y=2x-1

x	2x -1	у	(x,y)
-2	2×-2-1	-5	(-2,-5)
-1	2×-1-1	-3	(-1,-3)
0	2×-0-1	-1	(0,-1)
1	2×1-1	1	(1,1)
2	2×2-1	3	(2,3)

• Accordingly the graph is given below.



- Accordingly the gradient (m, y=mx+c) of the function y=2x-1 is 2
- The distance from the origin to the point where the straight line intersect the y axis is known as intercept. It is denoted by c (y=mx+c).

C= -1

Graph of functions given by equation of the form ax+by=c

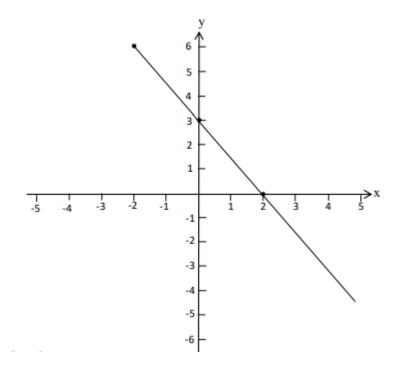
• Example: Drawing a graph of the function 3x+2y=6

$$3x+2y=6$$

$$\frac{2y}{2} = \frac{-3x}{2} + \frac{6}{2}$$

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

x	$\frac{-3}{2}$ x + 3	y
-2	-3×-2+3	6
0	$\frac{-3}{2}$ ×0 + 3	3
2	$\frac{-3}{2} \times 2 + 3$	0



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

- In this graph, $m = \frac{-3}{2}$ and c=3
- Accordingly do the exercise 20.3