Lecture - IV

Graph of Some Basic Functions

$$y = f(x)$$

$$f(x) = x$$

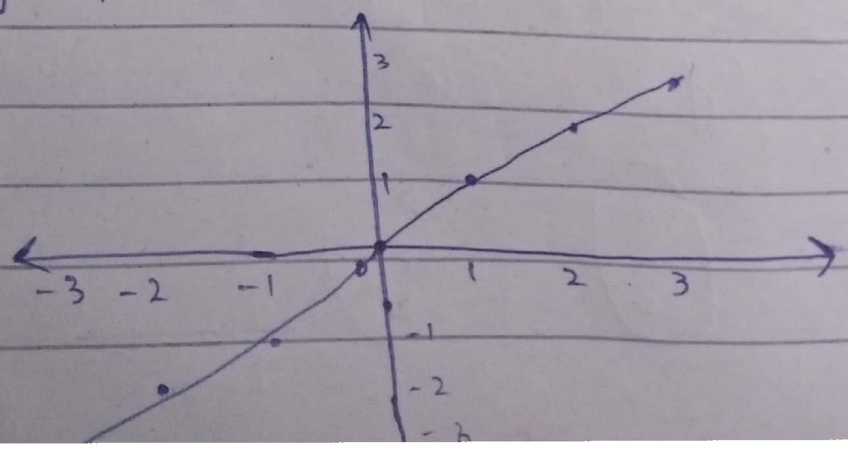
or

$$y = x$$

Let $x = \cdots -3, -2, -1, 0, 1, 2, 3, \cdots$

x	$f(x)$
-3	-3
-2	-2
-1	-1
0	0
1	1
2	3
3	3

Graph:



Q #2

$$y = x^2$$

$$f(x) = x^2$$

or

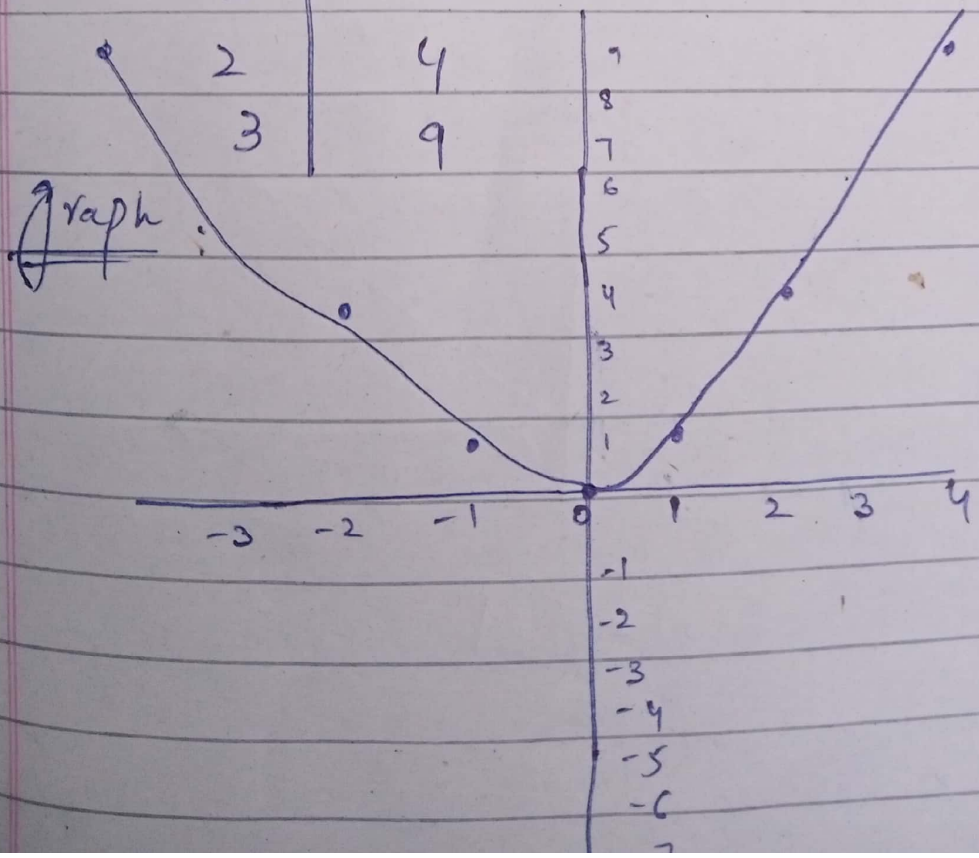
$$y = x^2$$

Sol

let $x = -3, -2, -1, 0, 1, 2, 3$

x	$y = x^2$
-3	9
-2	4
-1	1
0	0
1	1
2	4
3	9

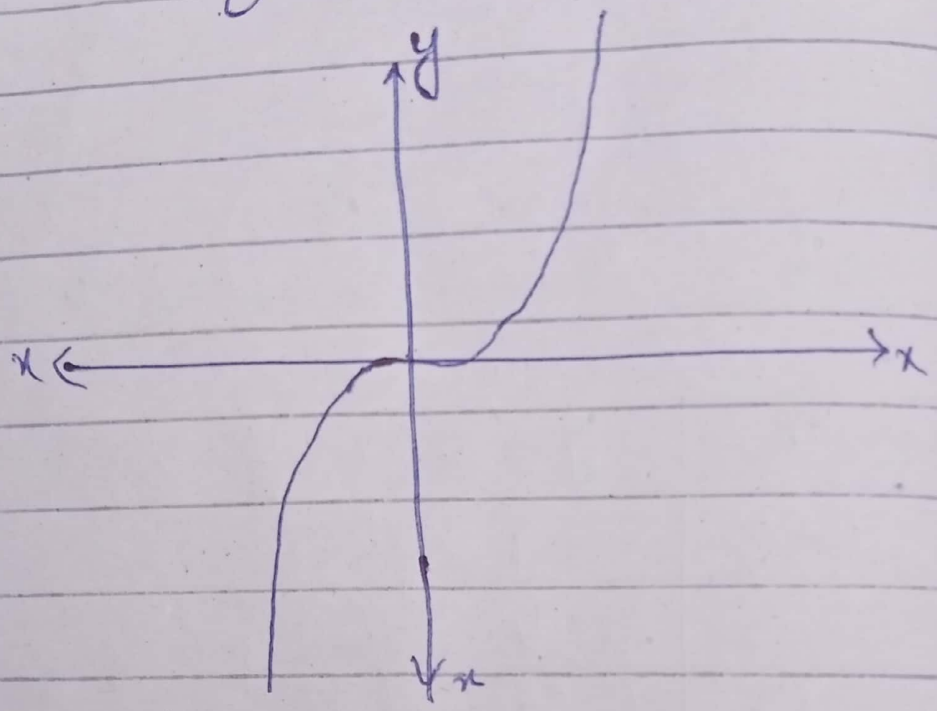
Graph:



Q #3

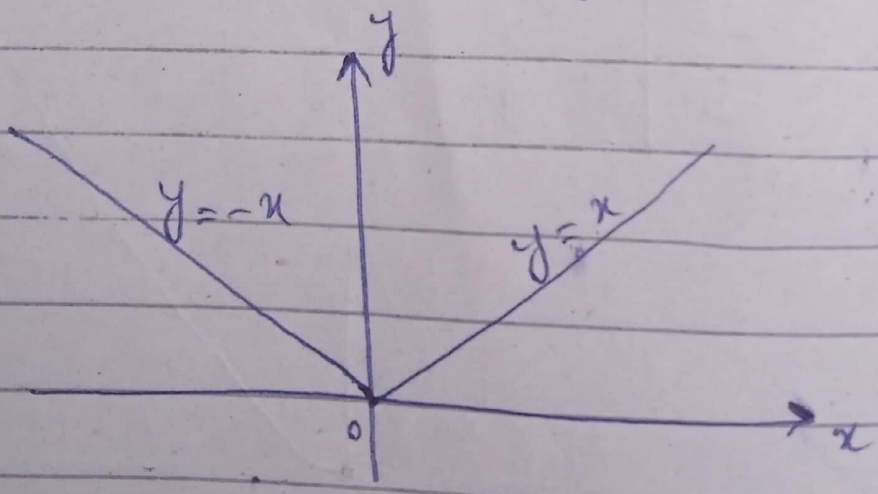
$y = x^3$ or

$f(x) = x^3$



Q #4

Absolute value function



$f(x) = |x|$