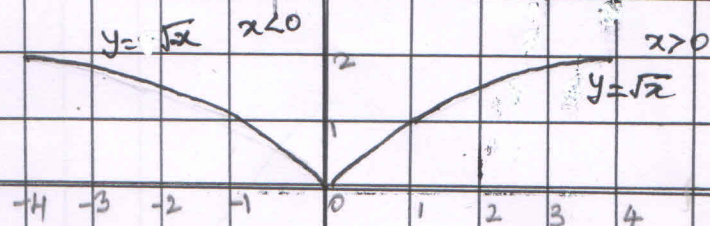
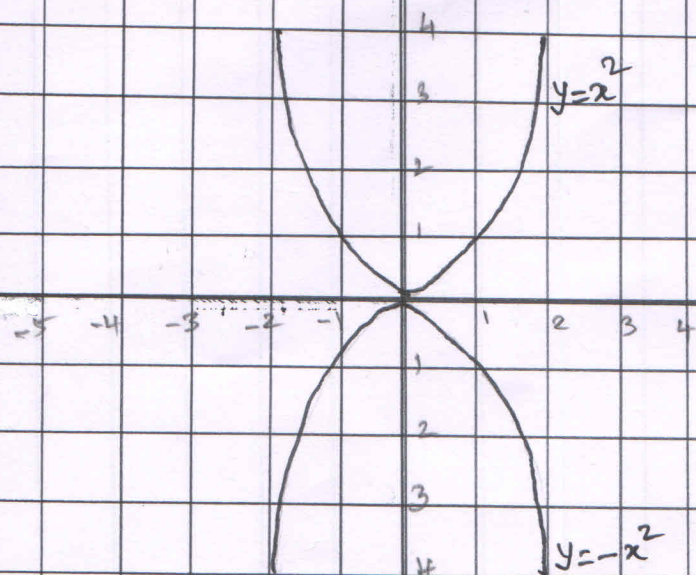
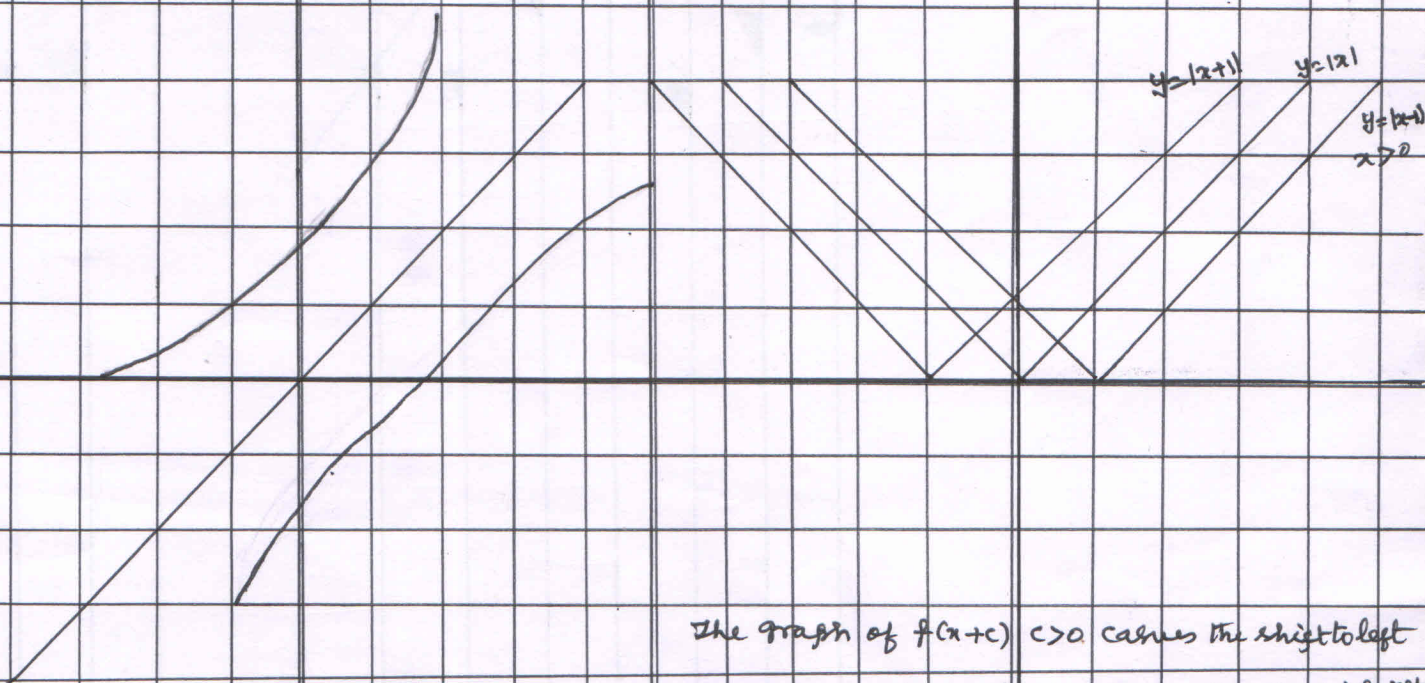


X1 Std Unit-I Exercise 1.4 with Examples -



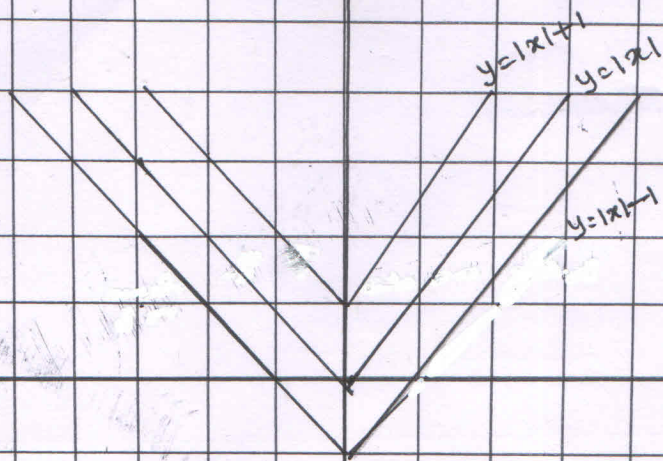
The Graph $y = f(-x)$ is the reflection of the Graph about y axis.

The Graph of $y = -f(x)$ is the reflection of the about x axis.



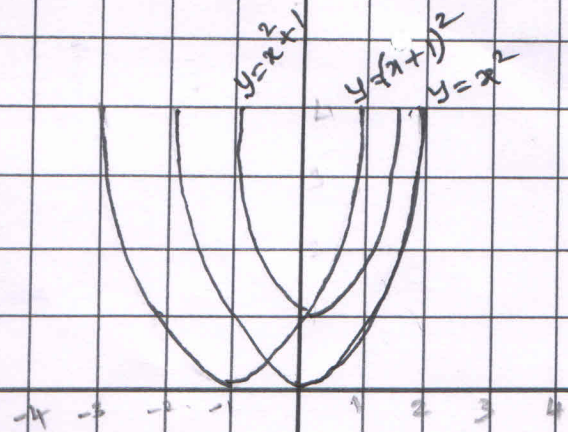
The graph of $f(x+c)$ $c > 0$ causes the shift to left
The graph of $f(x-c)$ $c > 0$ causes the shift to right

The Graph of $f'(x)$ is the reflection of the graph about the line $y = x$



The graph of $f(x) + d$, $d > 0$ Causes the shift to upward.

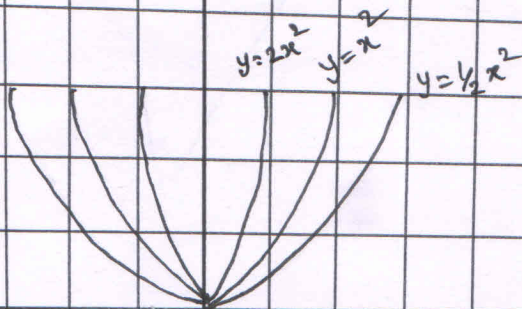
The graph of $f(x) - d$, $d > 0$ Causes the shift to downward.



$f(x) = x^2 + 1$ causes the graph of the function $f(x) = x^2$ shifts to the upward one unit.

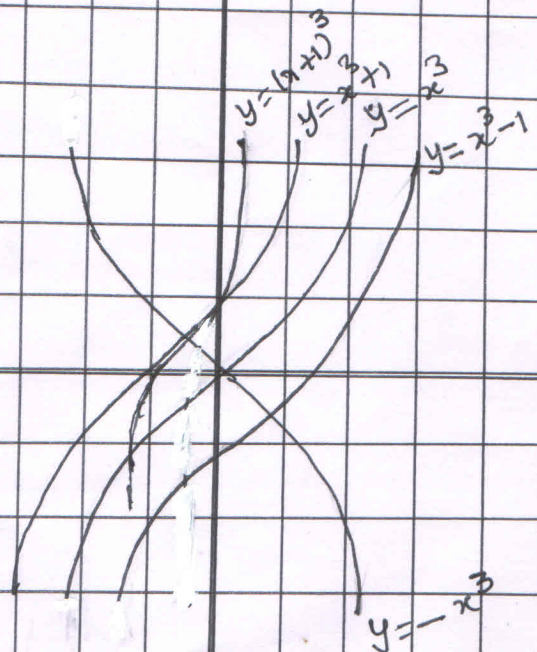
$f(x) = (x+1)^2$ causes the graph of the function $f(x) = x^2$ shifts to the left for one unit.

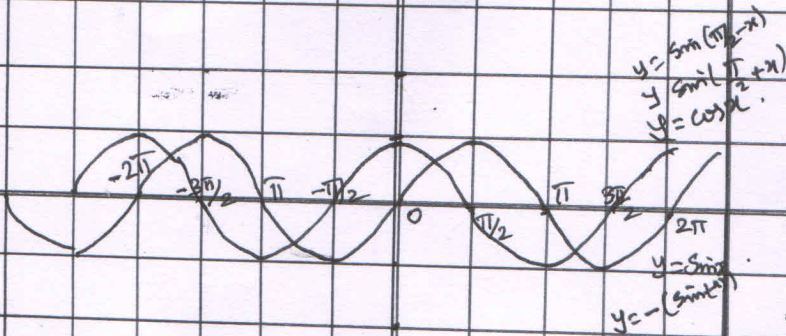
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The curve is multiplied by +ve constant > 1 (ee)
The curve shifts away from the x axis.

The curve is multiplied by a constant which is less than 1 (< 1) The curve shifts towards the x axis.





$$y = -2x$$

$$y = 2x$$

$$y = x+1$$

$$y = \frac{1}{2}x+1$$

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$$y = |x|$$

$$y = |x-1|+1$$

$$y = |x|$$

$$y = |x+1|$$