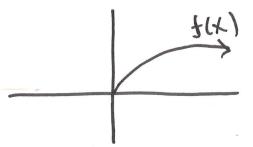
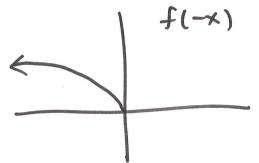
Lecchre	10/25/23:	Wertical+Herizontal Shith (Ct and Reflection + even and odd	d) () - Inehua
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Review Refn's of horizontal + vertical shifts

Reflection about y-axis. The the graph of f(x) be a finchm. The sun graph of g(-x) is the graph of f(x) Hippled reflected about the y-axis





Ex#9 Workbook

Even finctions: A finetim f(x) is culted even if f(x) = f(-x)

i.e it we retreet it about the y-axis it does not change

Ex: $y = x^2$ is even graphically

algebraicaly'

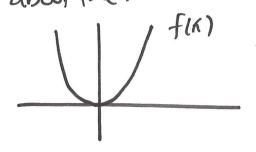
We need f(x) = f(-x), so let's check

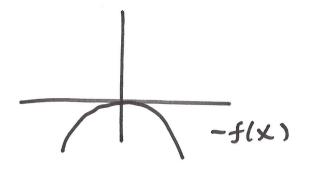
if $f(x) = x^2$ $f(x) = (-x)^2 = (-1)^2 x^2 = x^2$ f(x) = f(x) = f(-x) is of is even!

#7 is sun! Use deln or draw apichre!

Retrection about X-axis: (et f(x) be a function.

The graph of -f(x) is the graph of f(x) reflected about the x-axis



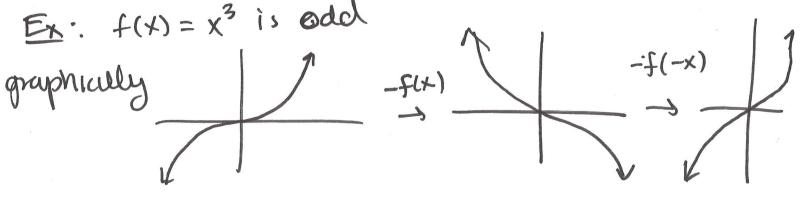


EX: 47 #10

Odd functions: A function of 11 said to be odd it f(x) = -f(-x).

I.e if A me flip f across y -axis and x-axis, the grape 17 the same

 E_X : $f(x) = x^3$ is odd



algebraidly: we need to show f(x) = -f(x).

$$-4(x) = -(-x)^3 = (-1)(-1)^3 x^3 = x^3$$

f(x) = -f(x); hence f 13 odd!

#8 11 also Fin!