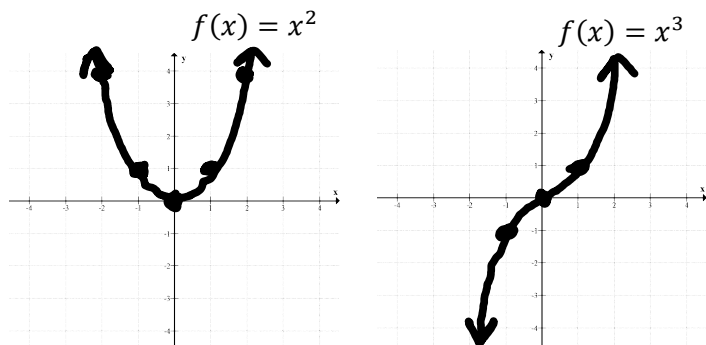


C12 - 1.7 - Even/Odd/121/Cubes/Abs/Int Notes



Even: $f(-x) = f(x)$

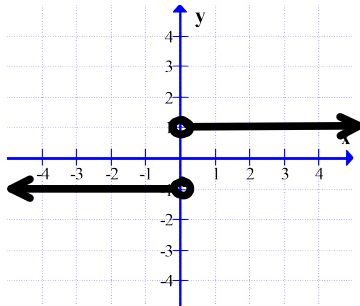
Odd: $f(-x) = -f(x)$

$f(-x) = (-x)^2 = x^2 = f(x)$
 $f(-x) = (-x)^3 = -x^3$
 $-f(x) = -(x^3) = -x^3$

Function Vertical Line Test **Function**

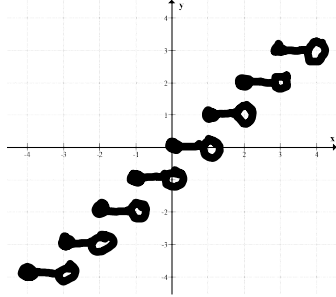
Not One - to - One Horizontal Line Test **One - to - One**

$$y = \frac{|x|}{x} = \frac{x}{|x|}$$



x	y
-2	-1
-1	-1
0	DNE
1	1
2	1

$$y = \text{int}x = [x]$$



Non integers Round down to nearest left integer*.

x	y
-1.5	-2
-1	-1
-0.5	-1
0	0
0.5	0
1	1
1.5	1
2	2
2.5	2

Find the following, given.

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

$g(x) = \frac{1}{x}$ $g(3) =$
 $g(a) =$
 $g(x + h) =$

$p(x) = \sqrt{x}$ $p(4) =$
 $p(a + h) =$
 $p(x + h) =$