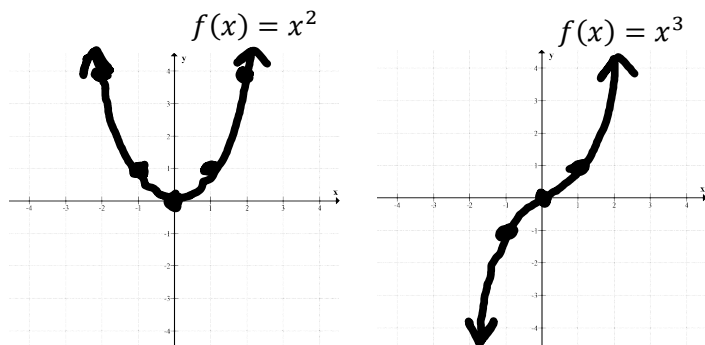


C12 - 1.8 - Even/Odd/121/Cubes/Abs/Int Notes



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

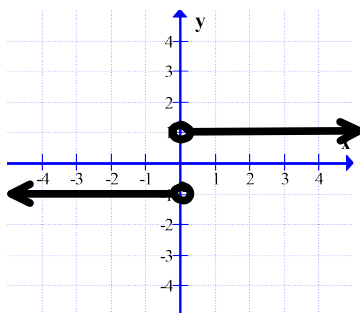
Function

Not One - to - One

Horizontal Line Test

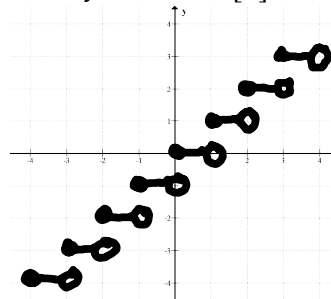
One - to - One

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



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.

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

$$f(x+2) =$$

$$f(x+h) =$$

$$g(x) = \frac{1}{x}$$

$$g(3) =$$

$$g(a) =$$

$$g(x+h) =$$

$$p(x) = \sqrt{x}$$

$$p(4) =$$

$$p(a+h) =$$

$$p(x+h) =$$