Constant
$$f(x) = 4$$
$$y = 4$$

Identity
$$f(x) = x$$
$$y = x$$

x	y
0	0
1	1
2	2
3	3

Absolute Value
$$f(x) = |x|$$

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

Greatest Integer
$$f(x) = [x]$$

-2 -1 0 1 2

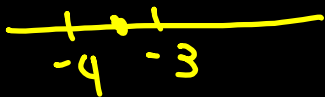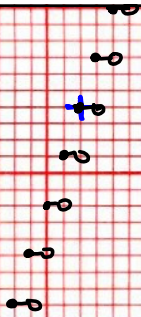| x	y
0	0
0.1	0
0.5	0
0.999	0
1.4	1

$$f(x) = [2x - 1] + 3$$

$$f(-1.2) = [2(-1.2) - 1] + 3$$

greatest $= [-2.4 - 1] + 3$

integer $\Rightarrow [-3.4] + 3$

$= -4 + 3 = \boxed{-1}$

-4 -3

$$f(x) = 3[x-2] + 4$$

Slope   Right   UP
           2   4

$$f(x) = -\frac{1}{2}|x+5| - 2$$

left   Down
5   2

N   12) Left 3 Down 4

$$f(x) = \frac{1}{3}|x+3| - 4$$

TRANSFORMATION RULES

$f(x) + c$	Moves up c units	$|x| + 8$
$f(x) - c$	Moves down c units	$|x| - 47$
$f(x + c)$	Moves left c units	$|x + 6|$
$f(x - c)$	Moves right c units	$|x - 29|$
$a\, f(x)$	Change slope	$4|x|$
$-f(x)$	Reflect over x-axis	$-|x|$
$f(-x)$	Reflect over y-axis	$|-x|$