



MEMORY AID TIPS 2.5

Greatest Integer Function Parameters "a" & "b"

Parameters		Geometric Transformations	Important Additional Information
а	lf a > 1	Vertical Stretch	 The value of a determines the vertical distance between each step If the value of a is a number other that 1 and it is negative, there are 2 geometric transformation
	lf 0 < a < 1	Vertical Shrink	
	If a < 0	Reflection off x - axis	
	lf b > 1 ●───○	Horizontal Shrink	 The horizontal length of each step is 1/b If the value of b is a number other that 1 and it is negative, there are 2 geometric transformation
b	lf 0 < b < 1 ●0	Horizontal Stretch	
	lf b < 0	Reflection off y - axis	



• Steps are going up

Vertical stretch.





Reflection off the x axis







reflection of the y axis

• Steps are going down





 $a \bullet b = positive \ slope$







 $a \bullet b = negative \ slope$



$$f(x) = a[bx]$$

a < 0 b < 0

- _x - = +

 $a \bullet b = positive \ slope$

