Math 2 Honors
Guided Notes

Name _____

Greatest Integer Function

The Greatest Integer Function _____

f (*x*) = _____

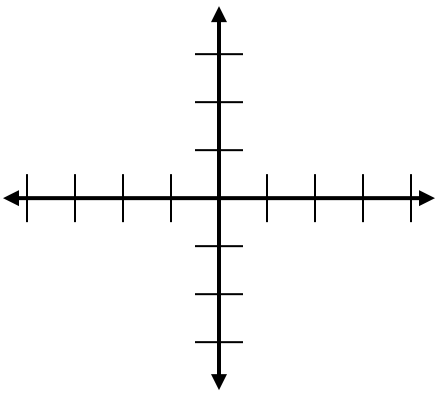
This function takes the input and finds the _____ closest to that number _____.

Examples:	*Answers*	*Examples:*	*Answers:*
1. [7.35] =		3. [-2.5]	
2. $\left[\frac{4}{3}\right]$ =		4. $\left[-\frac{10}{5}\right]$	

Graphing the Greatest Integer Function

The greatest integer function got its nickname, _____, from its graph.

f (*x*) = [*x*]



x	*f (x)*
-2.00	
-1.75	
-1.5	
-1.25	
-1.00	
-0.75	
-0.5	
-0.25	
0.00	
0.25	
0.5	
0.75	
1.00	
1.25	
1.5	

Transformations of the Greatest Integer Function

Don't forget the transformations do not change!

Graphing Form: _____

So _____ is a starting point for your steps.

The length of your steps is _____.

The space between your steps (vertically) is _____.

If _____ is _____ the steps go _____

and if _____ is _____ then the steps

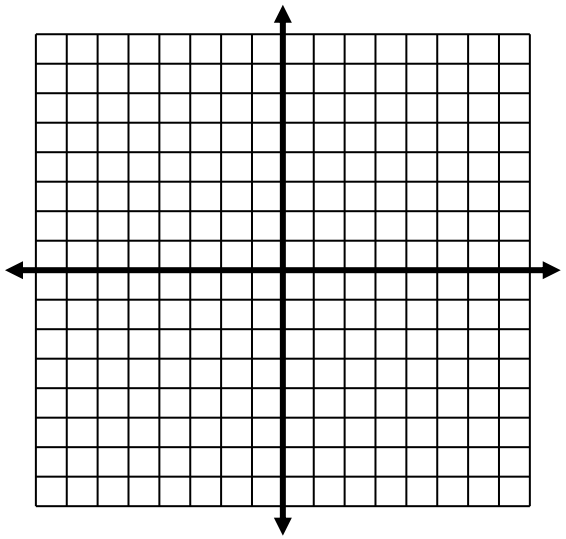
_____.

Example: Graph $f(x) = 2[\![x - 3]\!] + 1$

Start _____

Step length _____

Step height _____



Example 2: Graph $y = [\![2x + 4]\!] - 5$

Get in graphing form! _____

Start _____

Step length _____

Step height _____