

Stretching and Shifting

Use the $g(x)$ given in the first table to complete the second table.

x	$g(x)$
-5	1
-4	1
-3	1
-2	2
-1	1
0	1
1	1
2	2
3	1
4	1
5	1

x	$2g(x)$	$g(x+2)$	$g(x-2)$	$g(2x)$	$g(x/2)$
-5					
-4					
-3					
-2					
-1					
0					
1					
2					
3					
4					
5					

Using the graph paper provided and using the table of numbers you just made, sketch the following functions.

1. $g(x)$ and $2g(x)$.
2. $g(x)$, $g(x + 2)$, and $g(x - 2)$
3. $g(x)$, $g(2x)$, and $g(x/2)$

Plot the different functions in different colors. Bright, bold colors are preferred.



