Chapter 1.3: Stretching and Shifting Calculus I

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Use the values for g(x) given in the first table to complete the second table. If x is not in the table below, assume that g(x) = 1.

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

Sketch (on the same axes) the following functions using the table of numbers you just made.

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

Now make a table of numbers for g(-x) and -g(x). Then sketch g(x), g(-x), and -g(x) on the same axes.