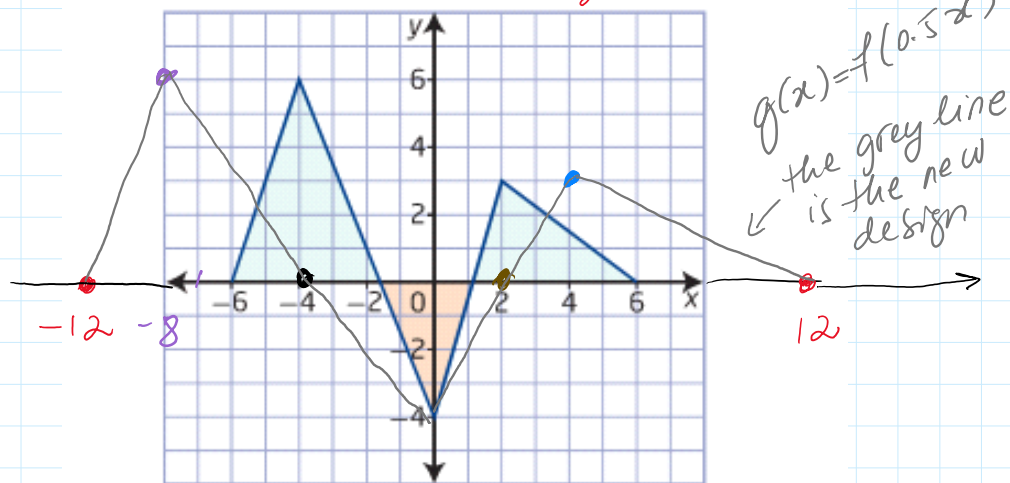


Apply

8. A weaver sets up a pattern on a computer using the graph shown. A new line of merchandise calls for the design to be altered to $y = f(0.5x)$. Sketch the graph of the new design. $\rightarrow 0.5 = \frac{1}{2}$



Horizontal stretch factor

$$x \rightarrow \frac{1}{2}x$$

$$\frac{1}{\frac{1}{2}} = 1 \cdot \frac{2}{1} = 2$$

$$(x, y) \rightarrow (2x, y)$$

x	$2x$	y stays the same.
0	0	
1	2	
2	4	
6	12	
-2	-4	
-4	-8	
-6	-12	