

Function Transformations PART 1

Transformations of functions are simply *changes* that are made to a function, both algebraically and graphically. We will investigate:

Shifts (or "translations")

Reflections

Stretching & Shrinking (or stretching and "compressing")

Let's start by looking at the function $f(x) = x^2 - 4x + 1$. If we want to understand the transformation $f(x) + 3$, we can first make a table. Then we can discover what happens to the graph...

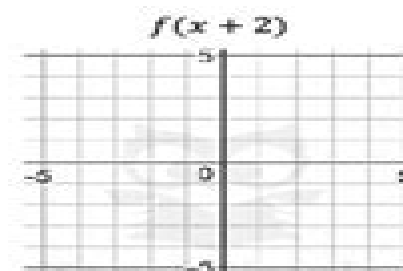
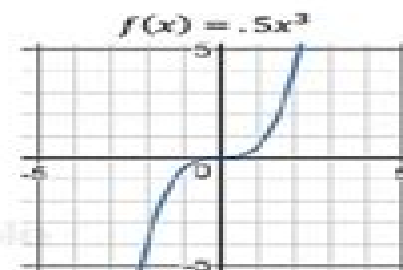
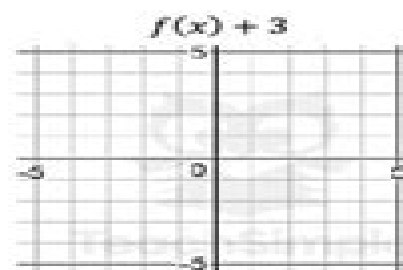
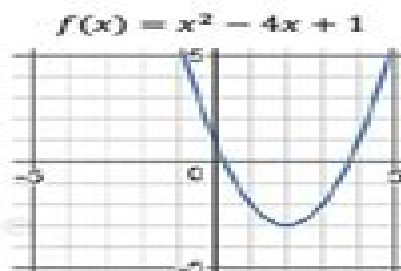
x	$f(x)$	$f(x) + 3$	$(x, f(x) + 3)$
0	$(\quad)^2 - 4(\quad) + 1 =$		
1	$(\quad)^2 - 4(\quad) + 1 =$		
2	$(\quad)^2 - 4(\quad) + 1 =$		
3	$(\quad)^2 - 4(\quad) + 1 =$		
4	$(\quad)^2 - 4(\quad) + 1 =$		

In the table above, we first found function values, and then added 3 to each.

But sometimes we must change the order in which we create our table.

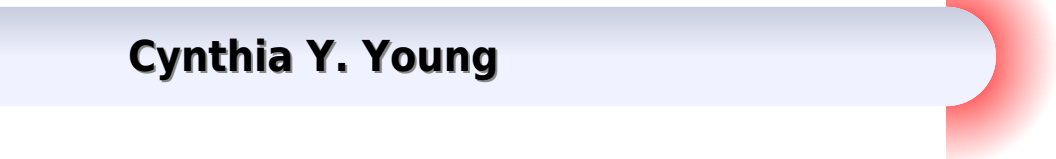
Given the function $f(x) = .5x^3$, let's complete the table and graph for the transformation $f(x + 2)$.

x	$x + 2$	$f(x + 2)$	$(x, f(x + 2))$
-3		$.5(\quad)^3 =$	
-2		$.5(\quad)^3 =$	
-1		$.5(\quad)^3 =$	
0		$.5(\quad)^3 =$	
1		$.5(\quad)^3 =$	
2		$.5(\quad)^3 =$	



Algebra Practice Test Function Transformations

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