

Transformations and Parent Functions

The "vertical shift" : d

This transformation is the easiest to recognize and utilize. To shift a function up or down (along the y-axis), simply add/subtract the amount at the end of the function.

Compare:

$$f(x) = |x| \quad (\text{absolute value parent function})$$

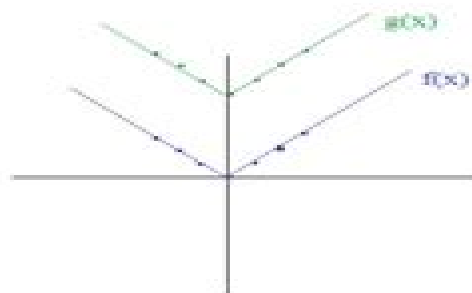
$$g(x) = |x| + 7 \quad (\text{"vertical shift" up 7})$$

$$f(x) = |x|$$

x	f(x)
-3	3
-2	2
-1	1
0	0
1	1
2	2
3	3

$$g(x) = |x| + 7$$

x	g(x)
-3	10
-2	9
-1	8
0	7
1	8
2	9
3	10



****Note:** the vertical shift is the value outside the function.

$$f(x + 7) \neq f(x) + 7$$

$$|x + 7| \neq |x| + 7$$

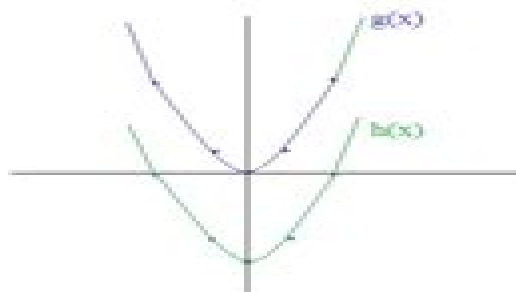
Compare:

$$f(x) = x^2 \quad (\text{parent function})$$

$$h(x) = x^2 - 4$$

x	f(x)
-2	4
-1	1
0	0
1	1
2	4

x	h(x)
-2	0
-1	-3
0	-4
1	-3
2	0



(Note: every output of the transformed function $h(x)$ is exactly 4 less than the output of the parent function $g(x)$)

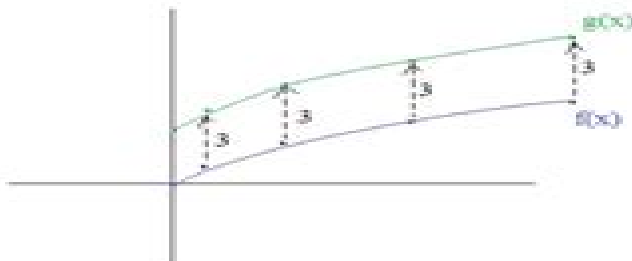
Compare:

$$f(x) = \sqrt{x} \quad (\text{square root parent function})$$

$$g(x) = \sqrt{x} + 3$$

x	f(x)
0	0
1	1
4	2
9	3
16	4

x	g(x)
0	3
1	4
4	5
9	6
16	7



If $f(x)$ is the parent function,

$a f(b(x - c)) + d$ is the transformed function where

a is the "stretch"

b is the "compression"

c is the "horizontal shift"

d is the "vertical shift"

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Yan Bai



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