

Functions & Graph Transformations

What is a Function?

A function describes a relation between two (or more) values. Each input value has one output.

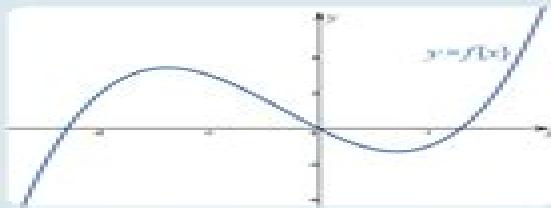
For example: let $f(x) = x^3 + x^2 - 3x$
 $f(2) = 2^3 + 2^2 - 3 \times 2 = 6, \quad f(0) = 0^3 + 0^2 - 3 \times 0 = 0$



A function is usually called f but can, like a variable, be called any letter or symbol.

Graphing a Function

A function is graphed the same as the "y = ..." equations you're used to, we just use " $f(x) = ...$ " instead!



Transformations

Transformations cause functions to change in some way. Constants are used to either translate or stretch a function's graph.

Translate: a shift, the graph moves:

up & down

$f(x) + a$

left & right

$f(x + b)$

Stretch: (or squeeze) parallel to:

y axis

$c f(x)$

x axis

$f(dx)$

Top tip

If the constant is inside the function, in with the x , then it causes transformations in the direction of the x axis.



If it is **outside** the function, operating on $f(x)$, then it causes changes in the direction of the y axis.



$f(x) + a$

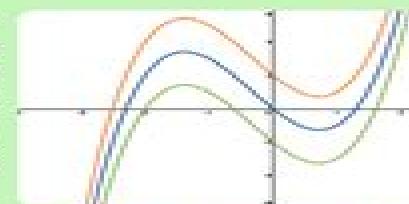
Shifts the graph up for $a > 0$
down for $a < 0$

Think of moving the graph a units up the y axis

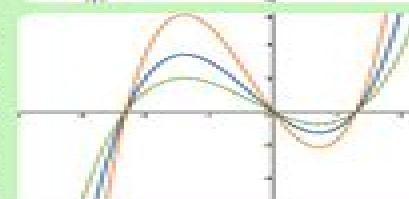
$c f(x)$

Stretches the graph parallel to the y axis
out for $c > 1$
(squeeze) in for $c < 1$

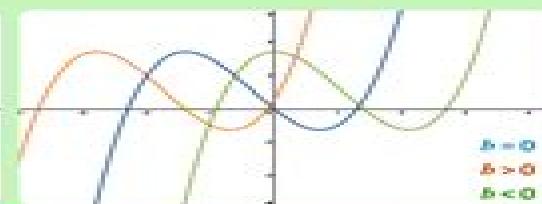
The scale factor is c ,
think of points being c times further from $y=0$



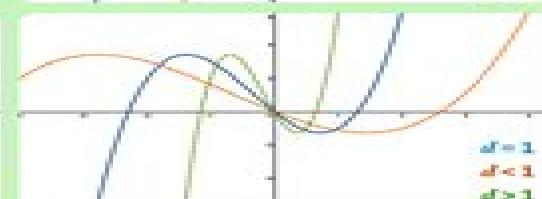
$a = 0$
 $a > 0$
 $a < 0$



$c = 1$
 $c > 1$
 $c < 1$



$b = 0$
 $b > 0$
 $b < 0$



$d = 1$
 $d < 1$
 $d > 1$

These bottom two graphs only use positive constants. Exercise: can you sketch what they'd look like with negative constants?



Summary Sheet Of Graph Transformations

Michael Rajnik

Summary Sheet Of Graph Transformations:

Embracing the Beat of Phrase: An Psychological Symphony within **Summary Sheet Of Graph Transformations**

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