

Transformation	Function	Description
Horizontal Shift	$f(x - h)$	$h > 0$: shift right h units
		$h < 0$: shift left h units
Vertical Shift	$f(x) + k$	$k > 0$: shift up k units
		$k < 0$: shift down k units
Reflection	$-f(x)$	Reflect across the x -axis
	$f(-x)$	Reflect across the y -axis
Horizontal Stretch/Compress	$f(ax)$	$a > 1$: Compress horizontally by a factor of $1/a$
		$0 < a < 1$: Stretch horizontally by a factor of $1/a$
Vertical Stretch/Compress	$bf(x)$	$b > 1$: Stretch vertically by a factor of b
		$0 < b < 1$: Compress vertically by a factor of b