



$y = x^2$
 $y = x^2 + 2$
 $y = (x + 2)^2$

$y = (x + 2)^2$
 $y = -(x + 2)^2$
 $y = (-x + 2)^2$

$y = 5 \sin x$
 $y = 10 \sin x$
 $y = 5 \sin(2x)$

		Transformations		
		Translation (slide)	Reflection (flip)	Dilation (scale)
		addition	negative	multiplication
		$y = x^2$	$y = (x + 2)^2$	$y = 5 \sin(x)$
()Output Vertical		$y = x^2 + 2$	$y = -(x + 2)^2$	$y = 10 \sin(x)$
		shift 2 up	flip across x-axis	vertical stretch
(Input) Horizontal		$y = (x + 2)^2$	$y = (-x + 2)^2$	$y = 5 \sin(2x)$
		shift 2 left	flip across y-axis	horizontal compression