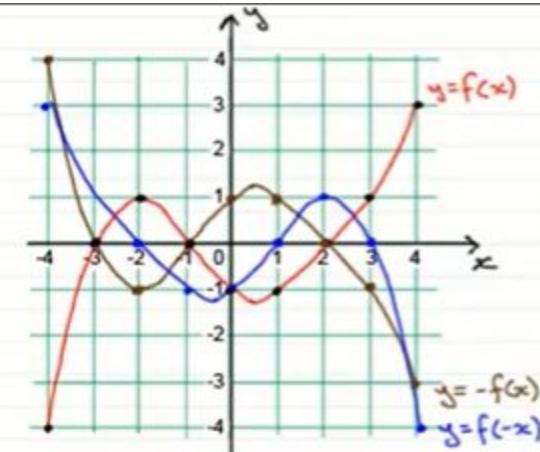




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## Transformations of Graphs : Reflections $y = -f(x)$ , $y = f(-x)$ Proof



$y = -f(x)$  reflects  $y = f(x)$  in the x-axis.

$y = f(-x)$  reflects  $y = f(x)$  in the y-axis.

$x$	-4	-3	-2	-1	0	1	2	3	4
$y = f(x)$	$f(-4) = -4$	$f(-3) = 0$	$f(-2) = 1$	$f(-1) = 0$	$f(0) = -1$	$f(1) = -1$	$f(2) = 0$	$f(3) = 1$	$f(4) = 3$

$x$	-4	-3	-2	-1	0	1	2	3	4
$y = -f(x)$	$f(-4) = 4$	$f(-3) = 0$	$f(-2) = -1$	$f(-1) = 0$	$f(0) = 1$	$-f(1) = 1$	$-f(2) = 0$	$f(3) = -1$	$-f(4) = -3$

$x$	-4	-3	-2	-1	0	1	2	3	4
$y = f(-x)$	$f(4) = 3$	$f(3) = 0$	$f(2) = 0$	$f(1) = -1$	$f(0) = -1$	$f(-1) = 0$	$f(-2) = 1$	$f(-3) = 0$	$f(-4) = -4$

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