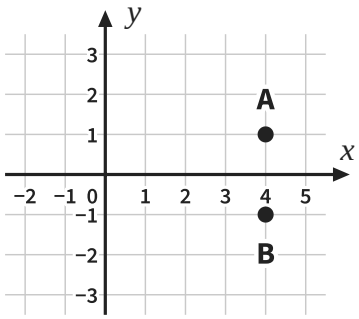
Graph transformations: where does the point go? *lesson handout* *The Maths Habit*

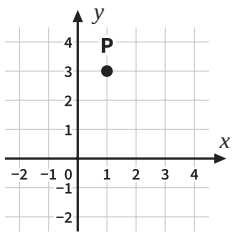
Turn and talk

A (4, 1) moves to B (4, −1). Describe the move in as many ways as you can.



We do

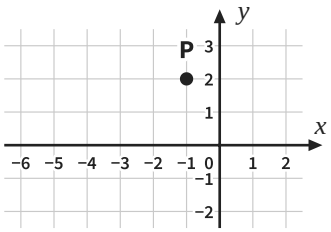
(1, 3) is on the graph of $y = f(x)$. Where is it on the graph of $y = f(x - 2)$?



	x	y
before	1	3
after		3

You do

(−1, 2) is on the graph of $y = f(x)$. Where is it on the graph of $y = f(x + 4)$?



	x	y
before	−1	2
after		

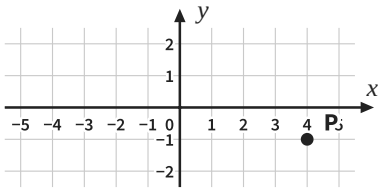
You do

$y = f(x)$ has a minimum point at (3, −2). Find the turning point of $y = f(x) - 4$.

	x	y
before	3	−2
after		

We do

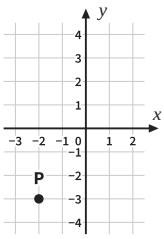
(4, −1) is on the graph of $y = f(x)$. Where is it on the graph of $y = f(-x)$?



	x	y
before	4	−1
after		−1

You do

(−2, −3) is on the graph of $y = f(x)$. Where is it on the graph of $y = -f(x)$?



	x	y
before	−2	−3
after		

You do

$y = f(x)$ has a maximum point at (−3, 1). Find the turning point of $y = f(-x)$.

	x	y
before	−3	1
after		