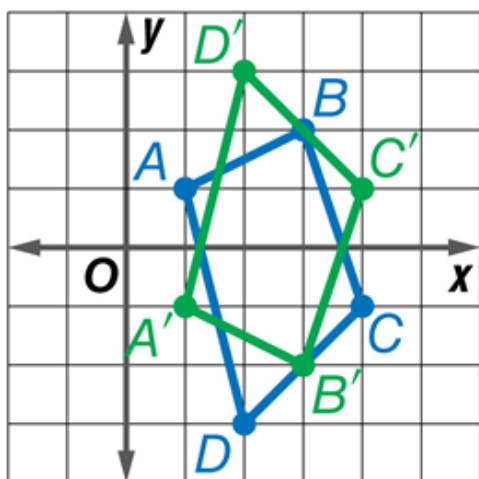
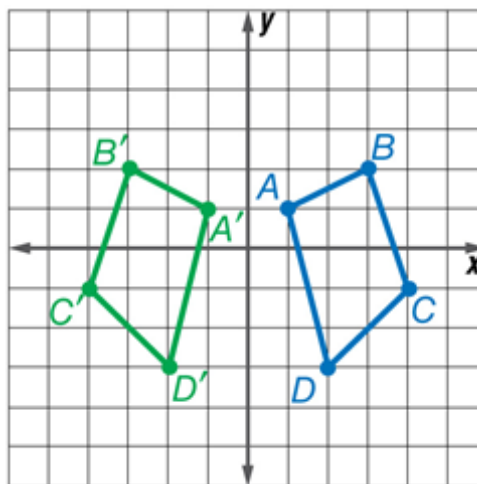


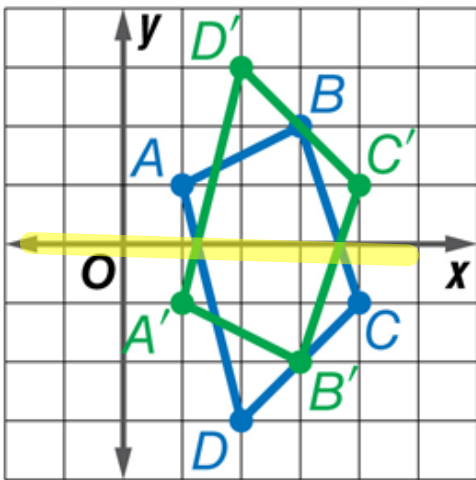
Make a table listing the coordinates of the points in the pre-image and the image.

Left Partner

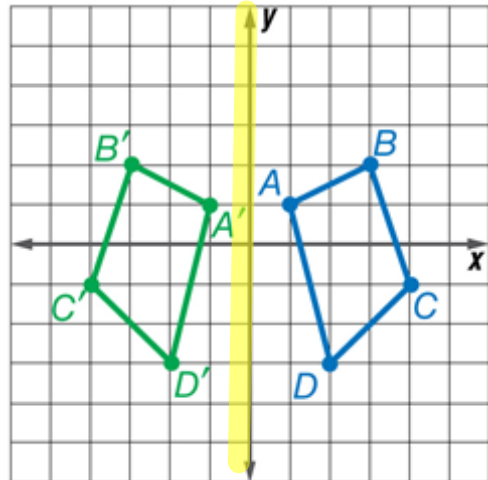


Right Partner





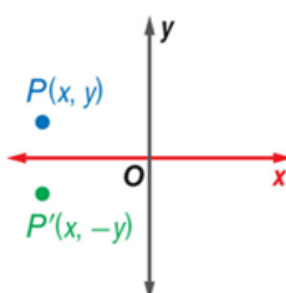
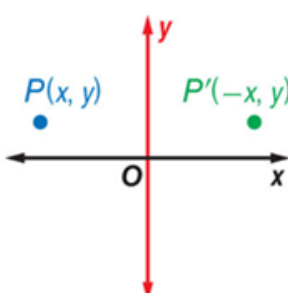
$A(1,1)$	$A'(1,-1)$
$B(3,2)$	$B'(3,-2)$
$C(4,-1)$	$C'(4,1)$
$D(2,-3)$	$D'(2,3)$



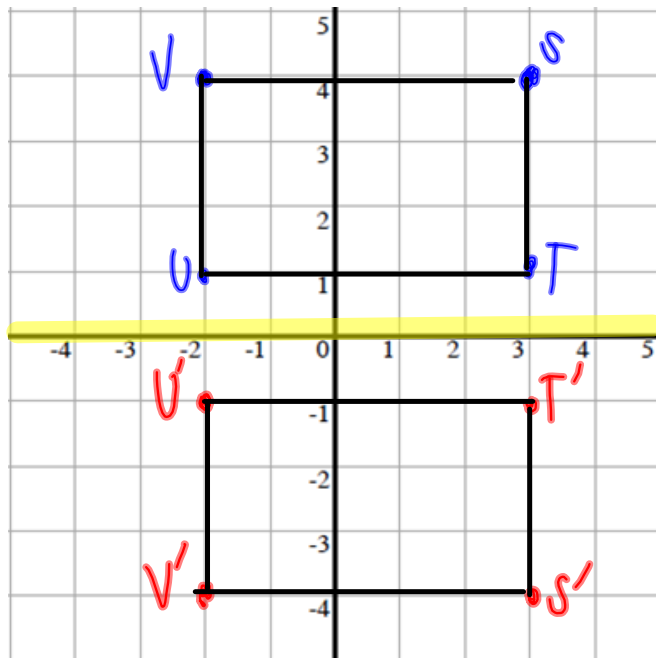
$A(1,1)$	$A'(-1,1)$
$B(3,2)$	$B'(-3,2)$
$C(4,-1)$	$C'(4,-1)$
$D(2,-3)$	$D'(-2,-3)$

Partner Talk

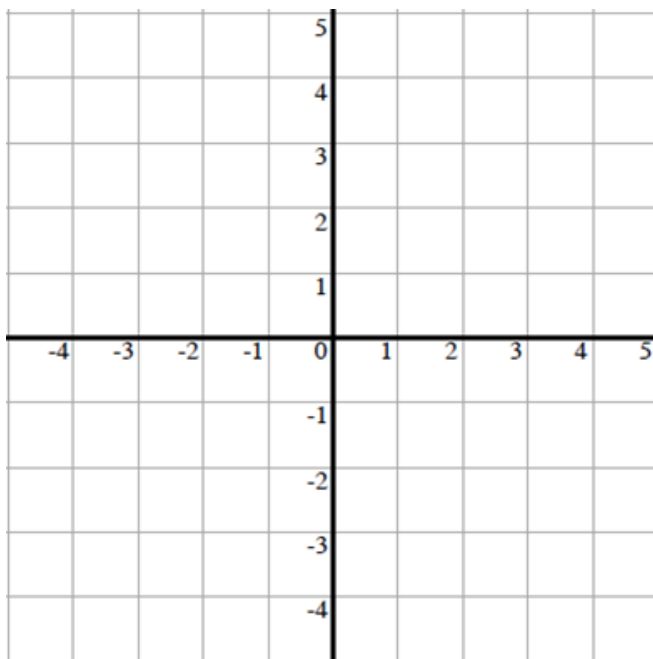
Brainstorm: What are the similarities and the differences between the coordinates of the image and the pre-image in each example?

Reflection in the x-axis	Reflection in the y-axis
 <p>$(x, y) \rightarrow (x, -y)$</p>	 <p>$(x, y) \rightarrow (-x, y)$</p>

Draw the following reflections in the coordinate plane.
 a) S (3, 4), T (3, 1), U (-2, 1), and V (-2,4); **x-axis**.

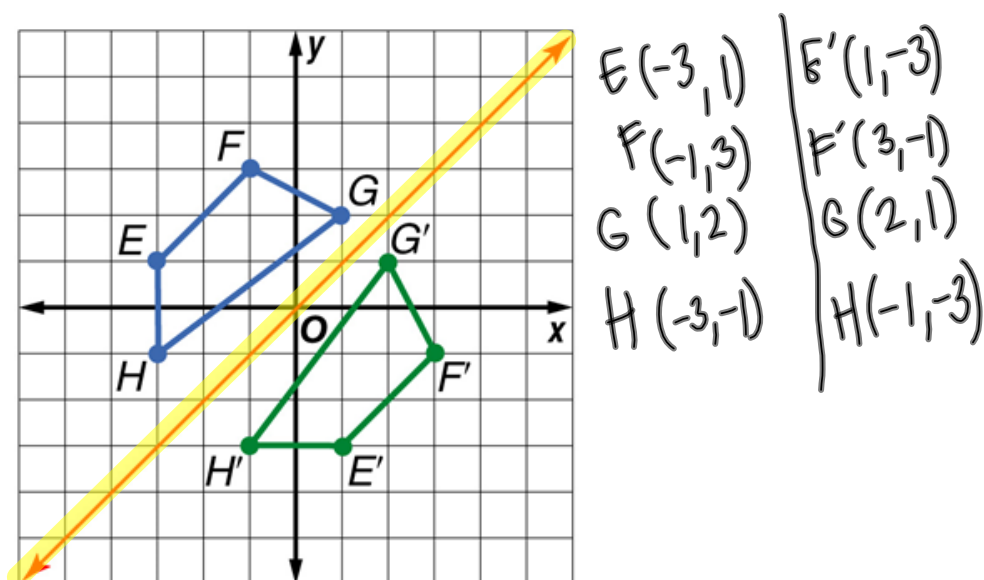


R (0,-1), S (2, 2), T (3, 0); y-axis

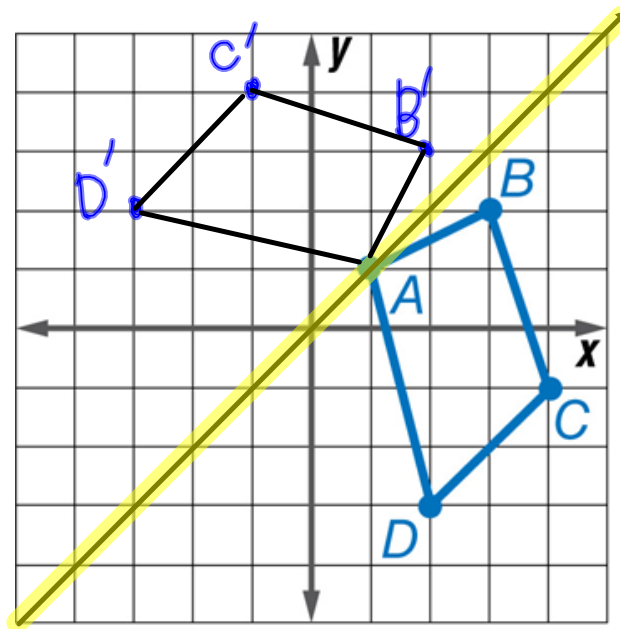


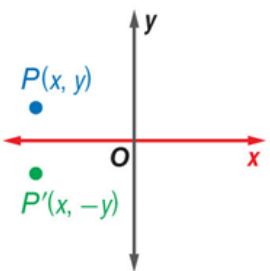
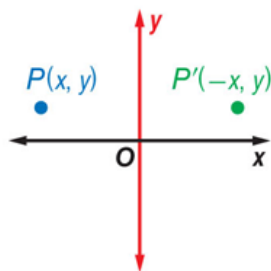
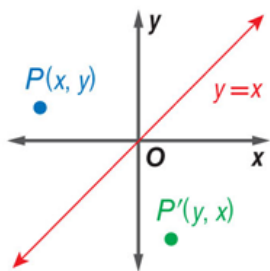
Partner Talk

Quadrilateral $EFGH$ was reflected across the line $y = x$.
Describe how the pre-image has changed.



c) Reflect quadrilateral $ABCD$ across $y = x$.



Concept Summary Reflection in the Coordinate Plane		
Reflection in the x -axis	Reflection in the y -axis	Reflection in the line $y = x$
 <p>$(x, y) \rightarrow (x, -y)$</p>	 <p>$(x, y) \rightarrow (-x, y)$</p>	 <p>$(x, y) \rightarrow (y, x)$</p>

