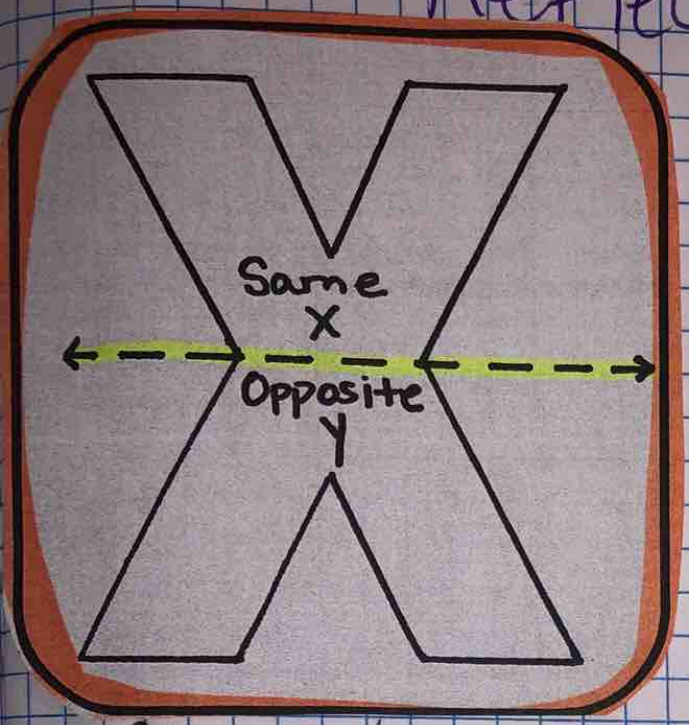
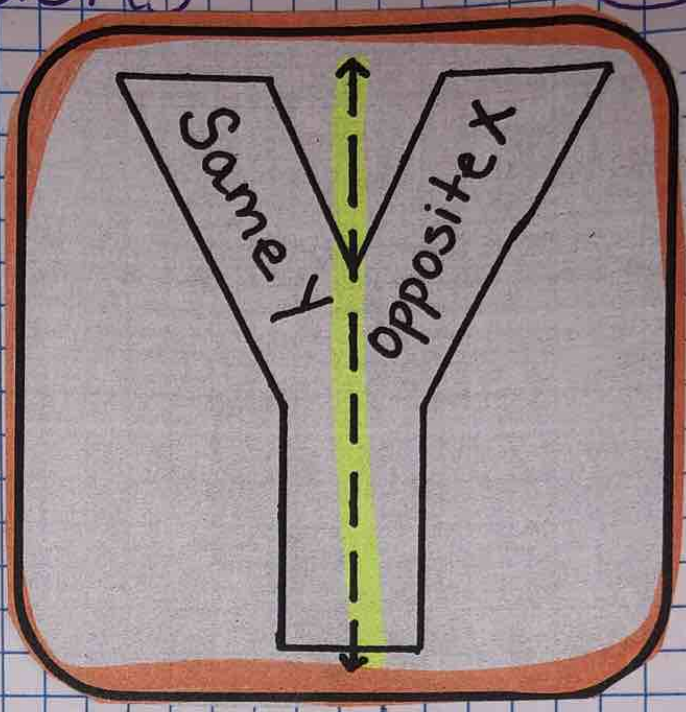
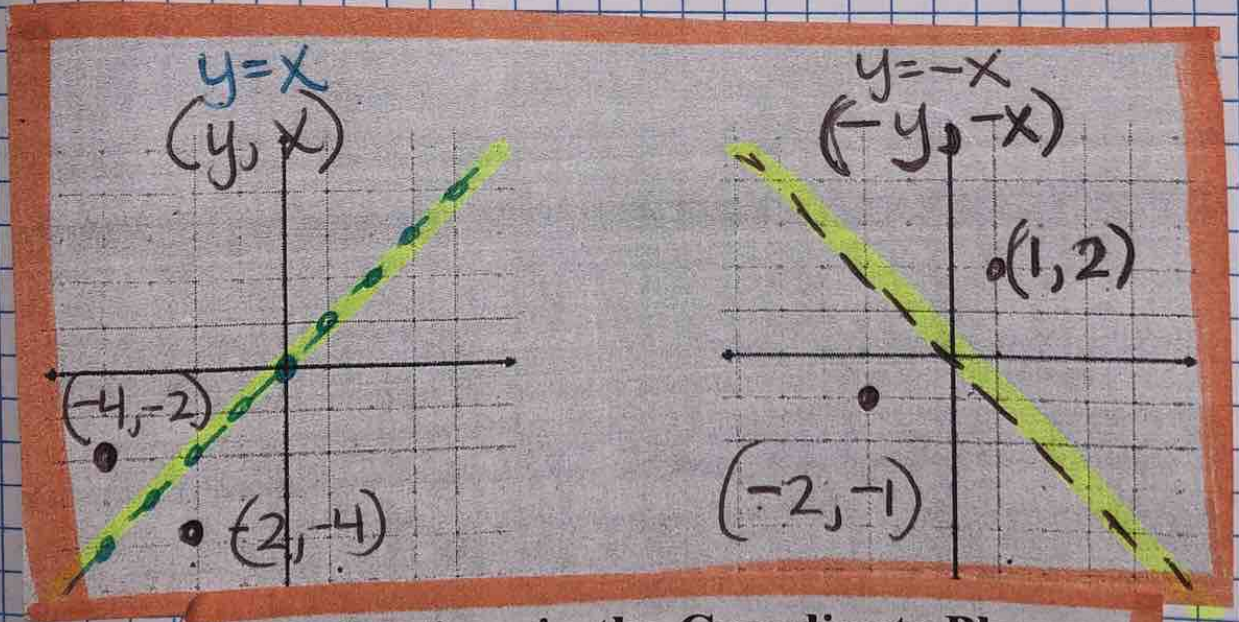
Reflections



across the x-axis



across the y-axis

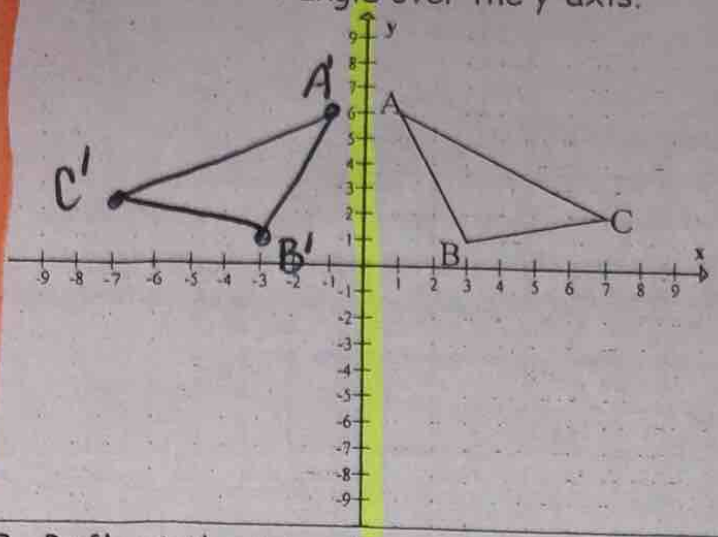


Reflections in the Coordinate Plane

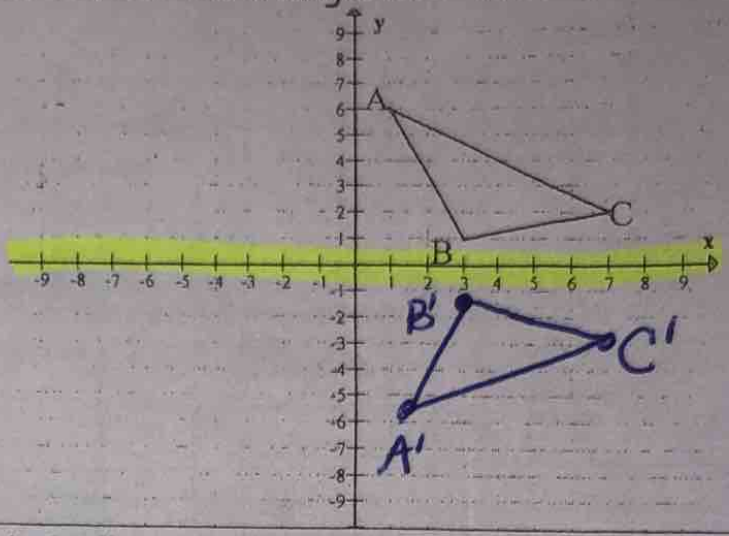
(x, y)	x-axis	y-axis	y = x	y = -x
(x, y)	(x, - y)	(-x, y)	(y, x)	(-y, -x)
(2, 3)	(2,-3)	(-2,3)	(3,2)	(-3,-2)
(-5, 6)	(-5,-6)	(5,6)	(6,-5)	(-6,5)
(-1, -7)	(-1,7)	(1,-7)	(-7,-1)	(7,1)

Reflections mirrored image FLIP

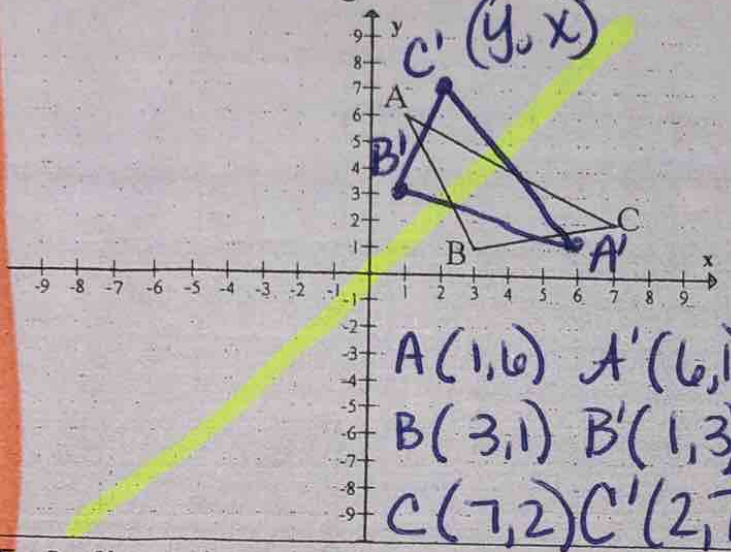
1. Reflect the triangle over the y-axis.



2. Reflect the triangle over the x-axis.

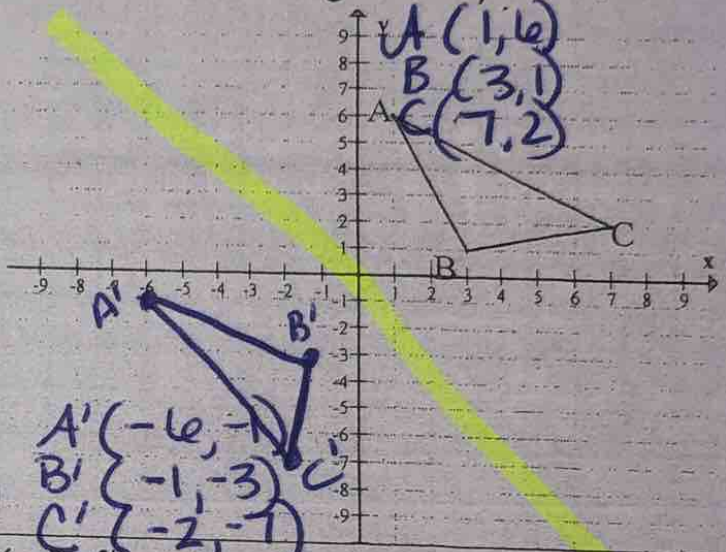


3. Reflect the triangle over $y = x$.



A(1,6) A'(6,1)
B(3,1) B'(1,3)
C(7,2) C'(2,7)

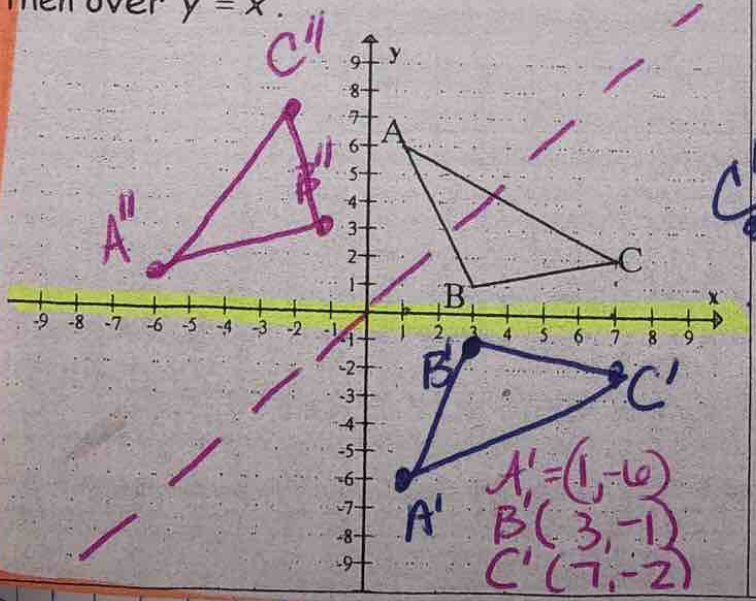
4. Reflect the triangle over $y = -x$.



A(1,6)
B(3,1)
C(7,2)

A'(-6,-1)
B'(-1,-3)
C'(-2,-7)

5. Reflect the triangle over the x-axis and then over $y = x$.



A'=(1,-6)
B'(3,-1)
C'(7,-2)

6. Reflect the triangle over $x = -2$.

"Counting method"