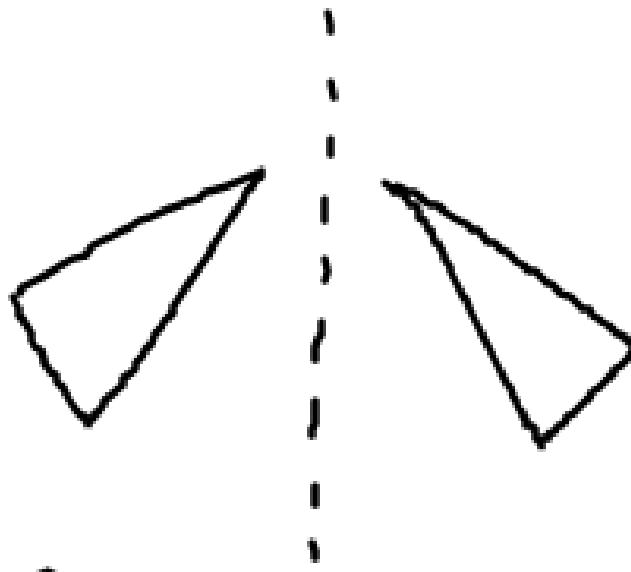
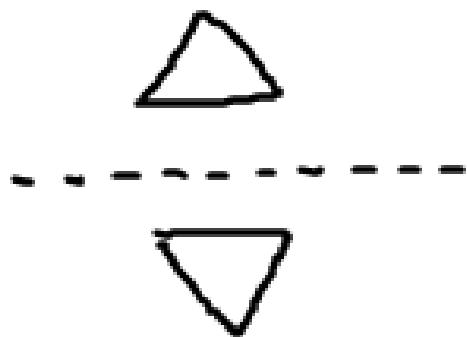
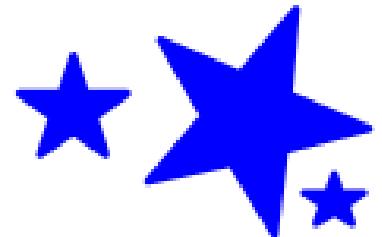


8 - 6

Reflections and Line Symmetry

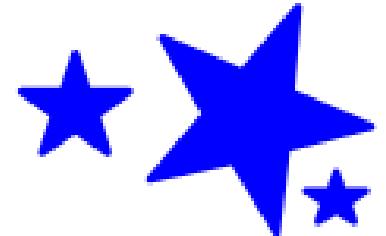
reflection: flip



Real-life examples: phone
mirror
puddles
eyes

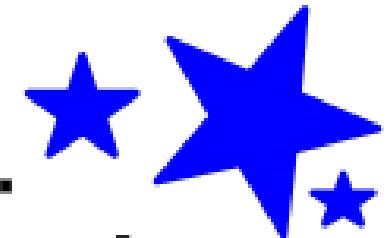
1.) Reflection in the y-axis:

change the sign of x

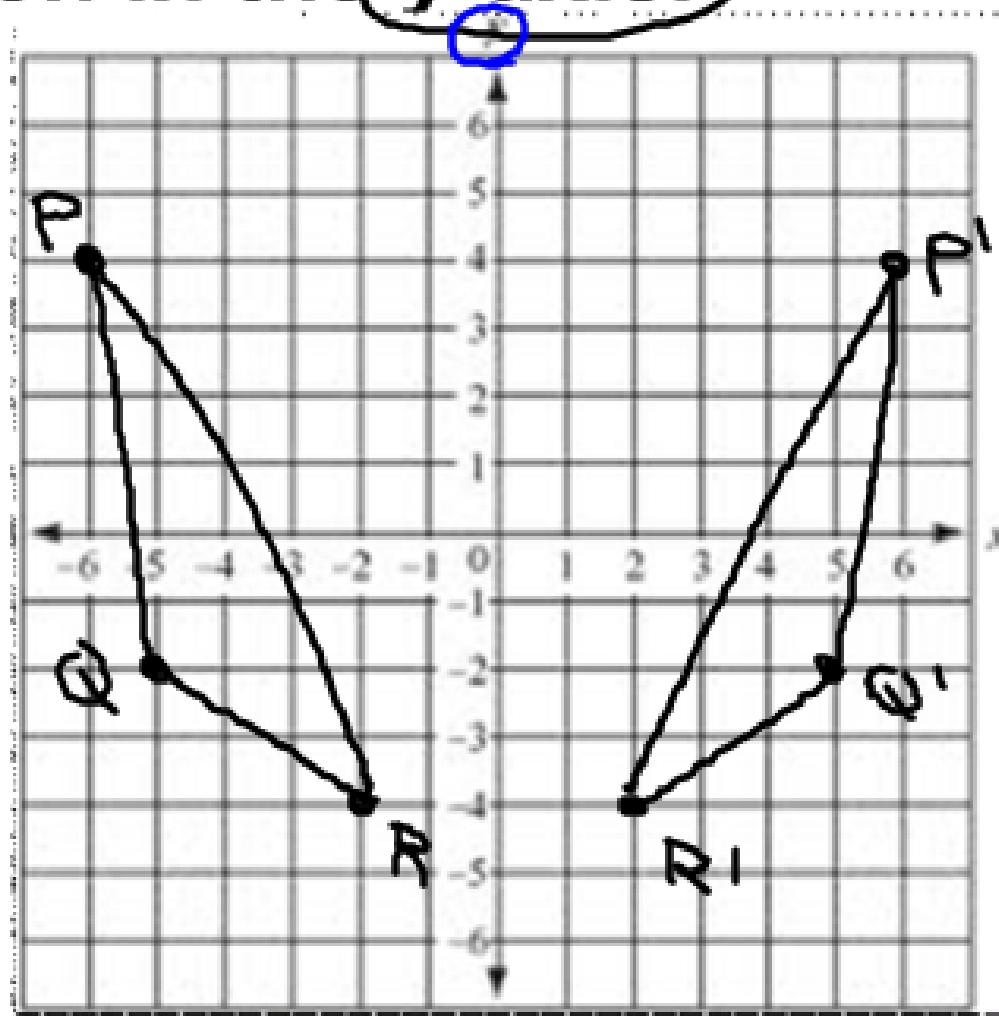


Ex: Triangle PQR has vertices

P($-6, 4$), Q($-5, -2$), and R($-2, -4$).

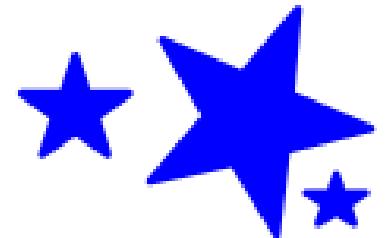


Graph $\triangle PQR$ and its image under reflection in the y-axis.

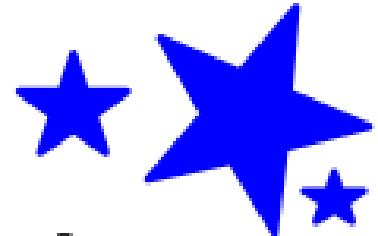


2.) Reflection in the x-axis:

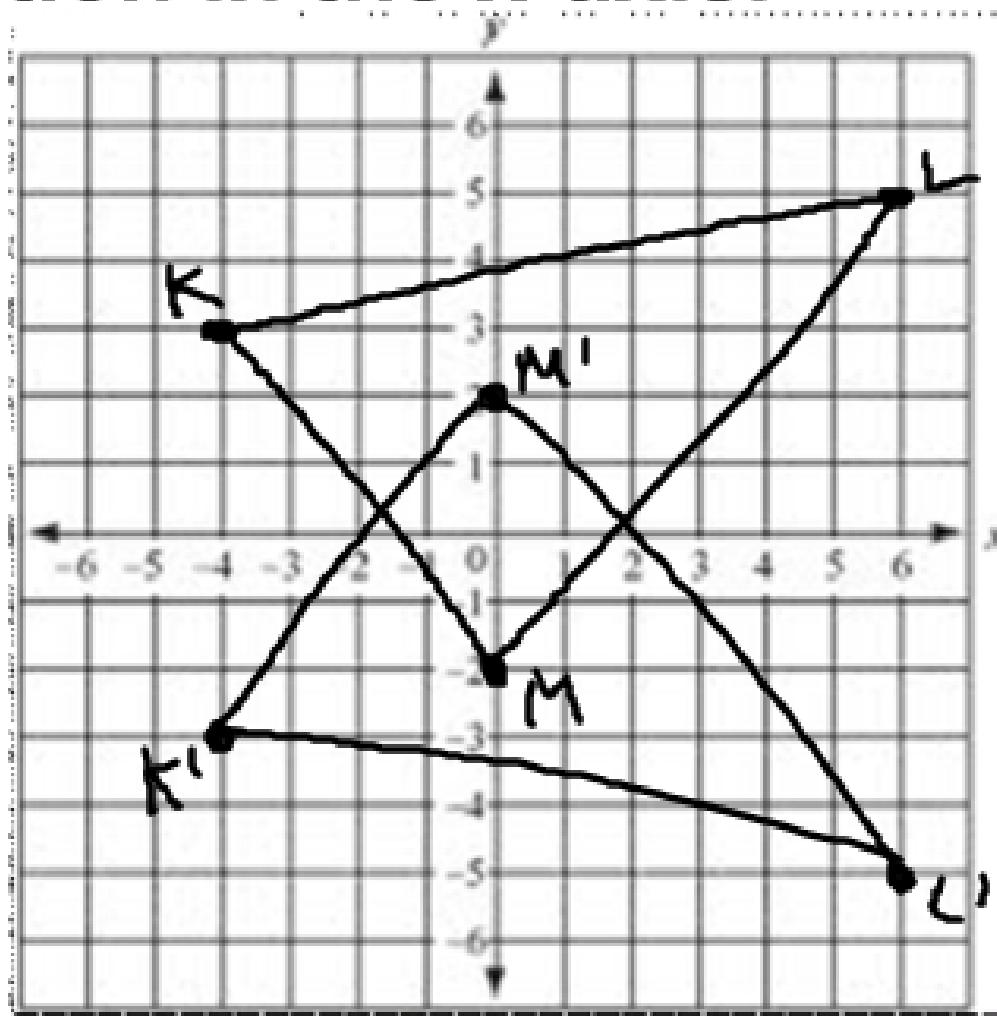
change the sign of y



Ex: The vertices of $\triangle KLM$ are
 $K(-4, -3)$, $L(6, 5)$, and $M(0, -2)$.

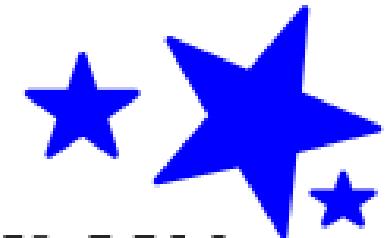
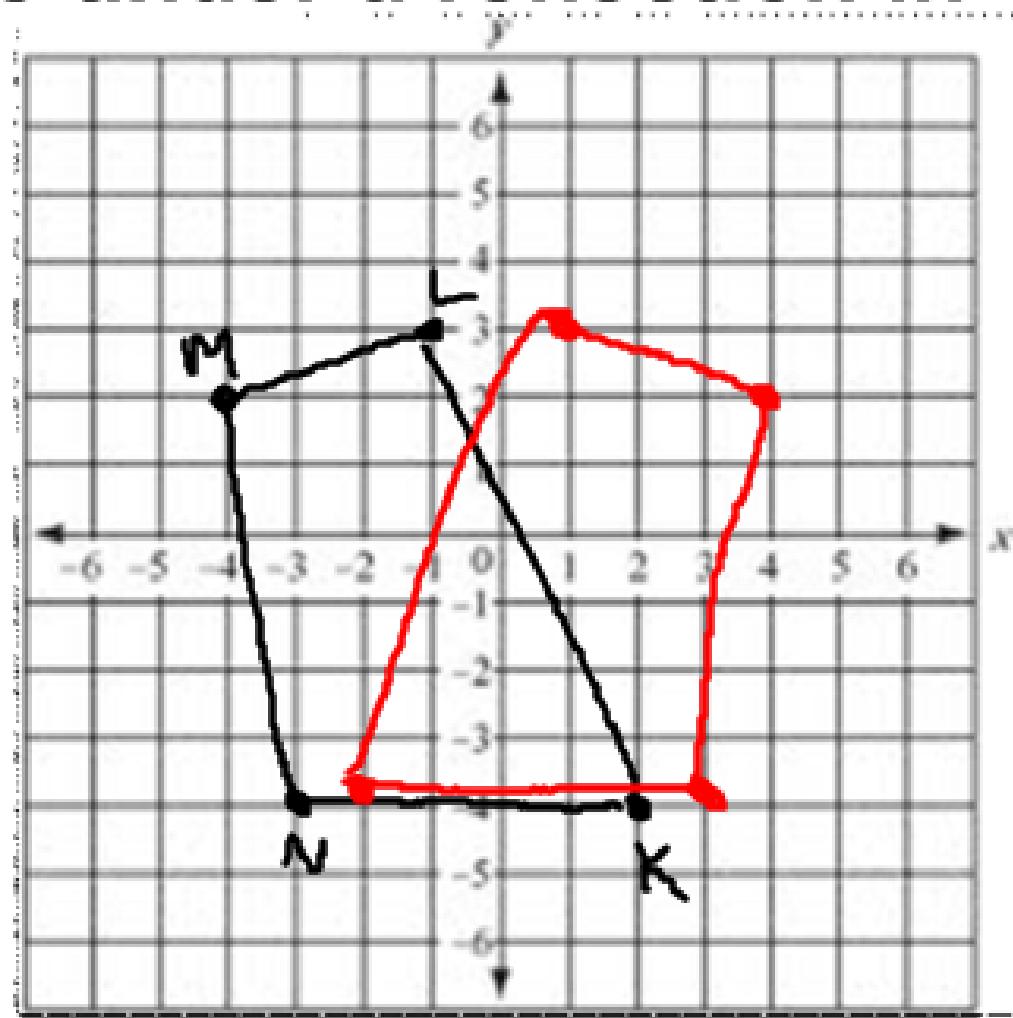


**Graph $\triangle KLM$ and its image under
a reflection in the x-axis.**

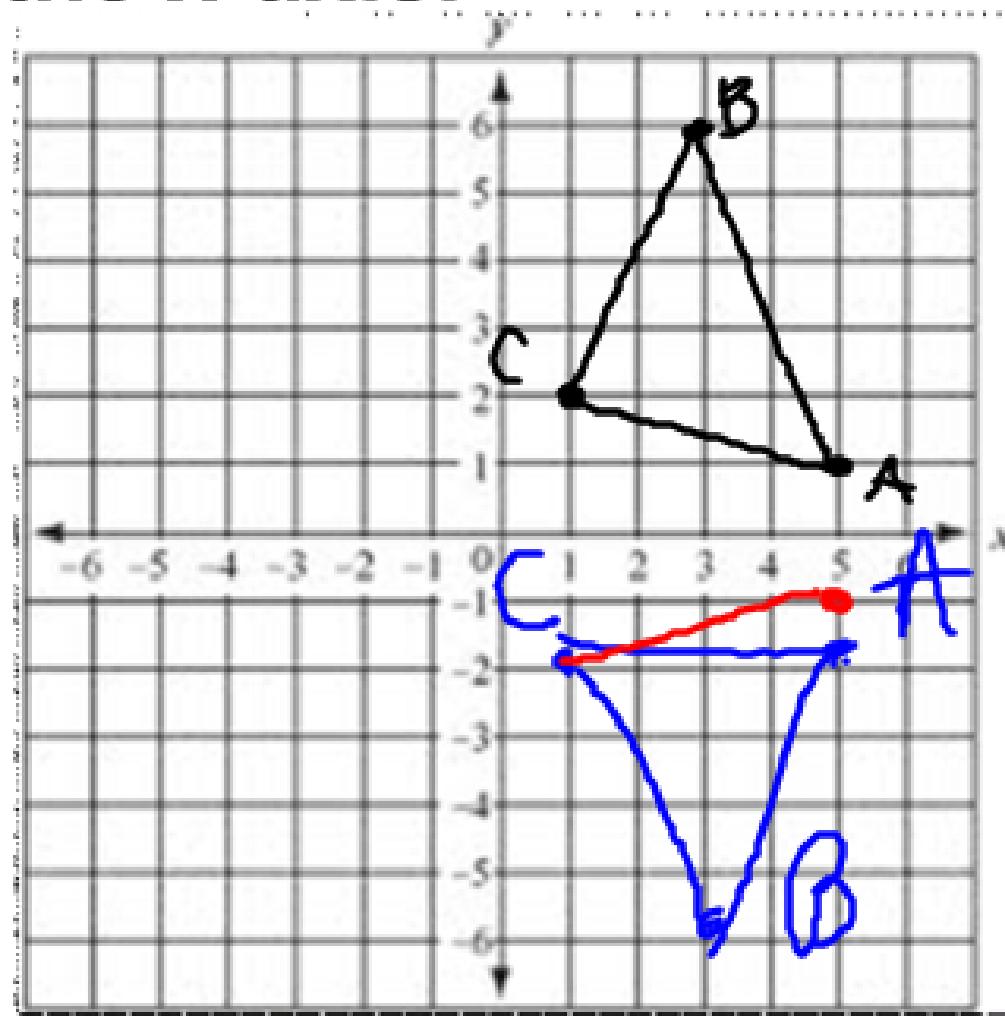
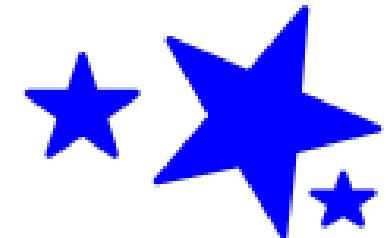


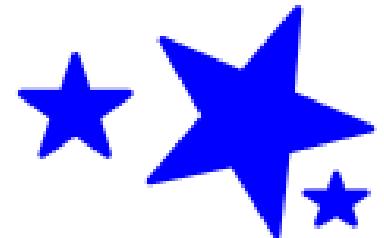
Ex: Quadrilateral KLMN has vertices $K(2, -4)$, $L(-1, 3)$, $M(-4, 2)$, and $N(-3, -4)$. Graph KLMN and its image under a reflection in the y-axis.

Hey!

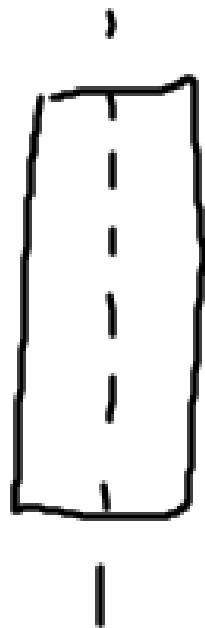


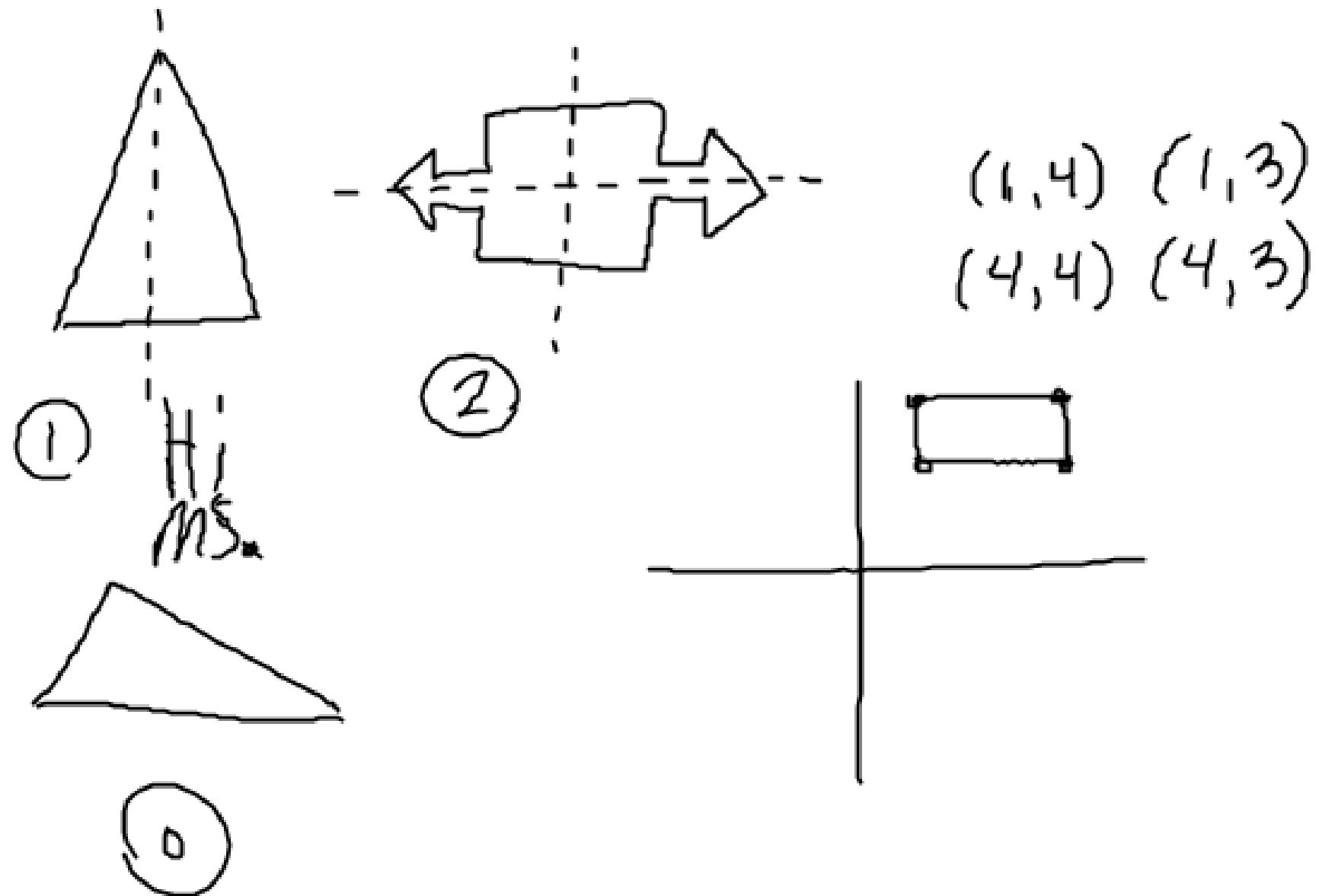
**Ex: Triangle ABC has vertices
A(5, -1), B(3, 6), C(1, -2). Graph
 $\triangle ABC$ and its image under a
reflection in the x-axis.**

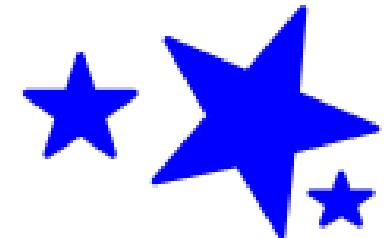




line of symmetry:







Homework:

8 - 6 WS