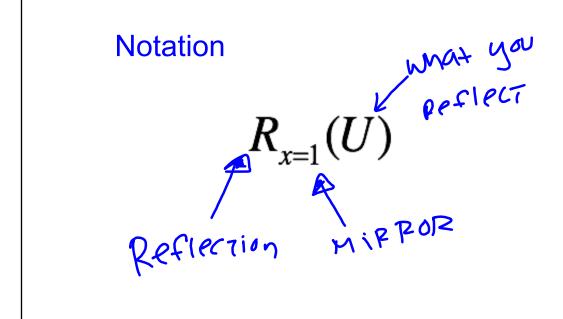
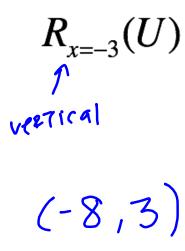
9-2 Reflections and Rotations

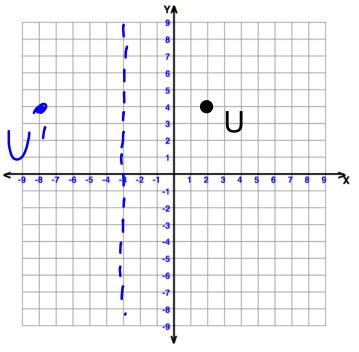
Objectives:

- I can reflect a point or image across a line
- I can write a reflection rule
- I can rotate around the origin.



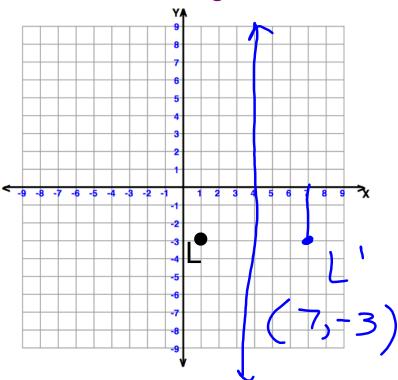
Find the coordinates of the image



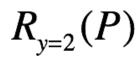


Find the coordinates of the image

 $R_{x=4}(L)$

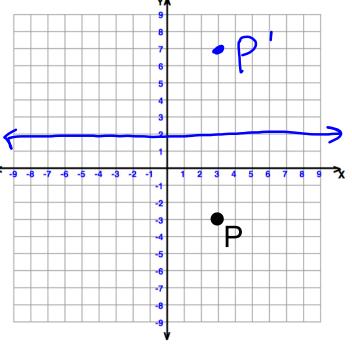




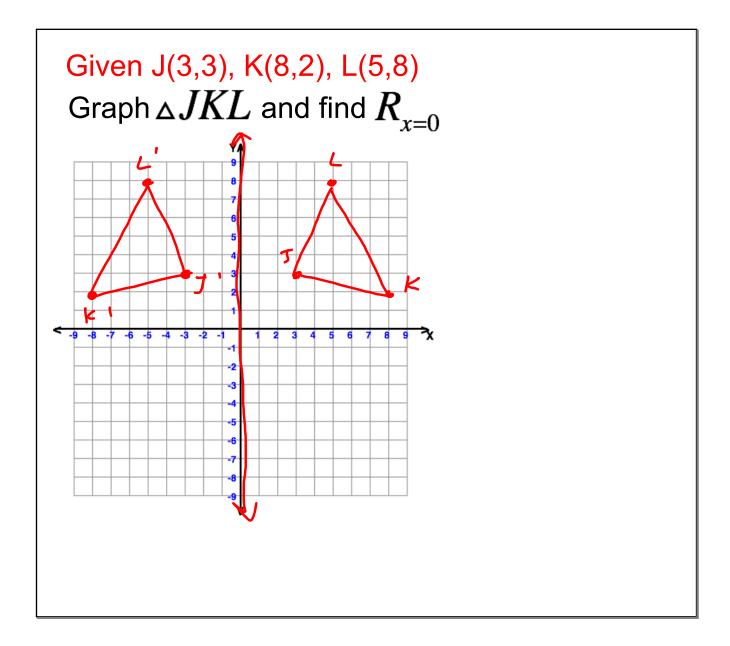


MIERORF

(3,7)

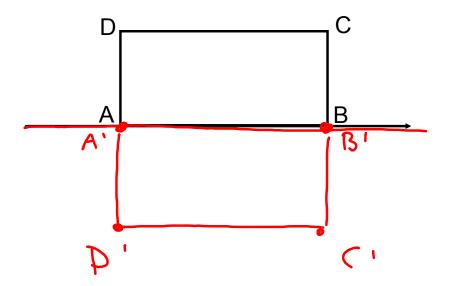


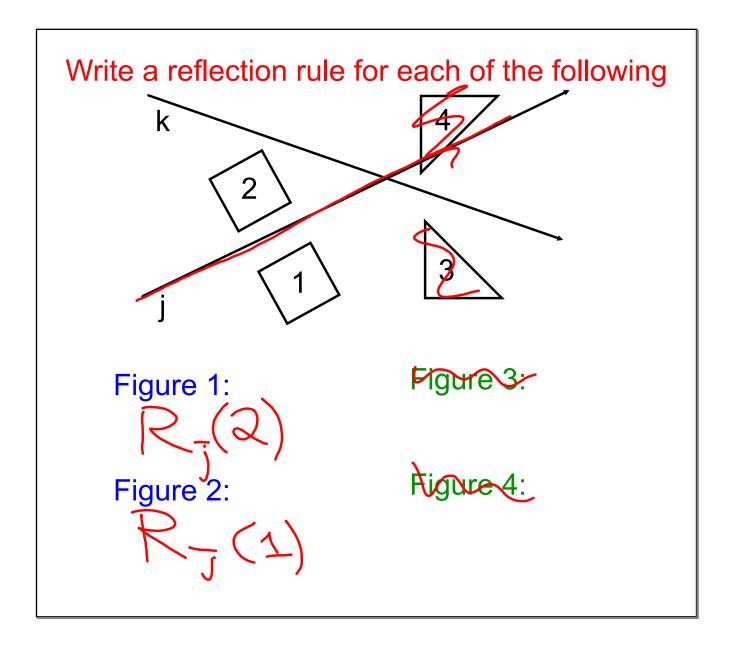
Given A(-7,3), B(-7, -3), C(-3,1) Graph $\triangle ABC$ and find $R_{x=1}$

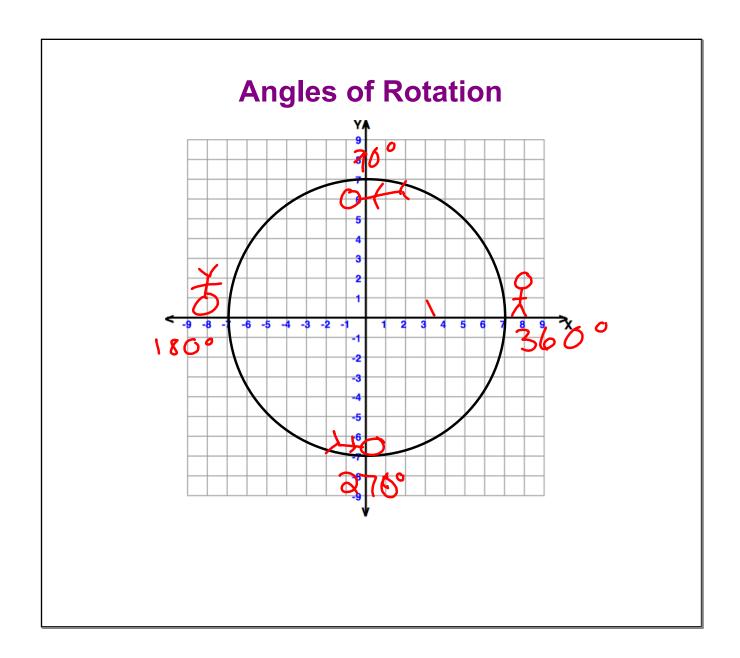


ABCD is a rectangle where AB=2BC

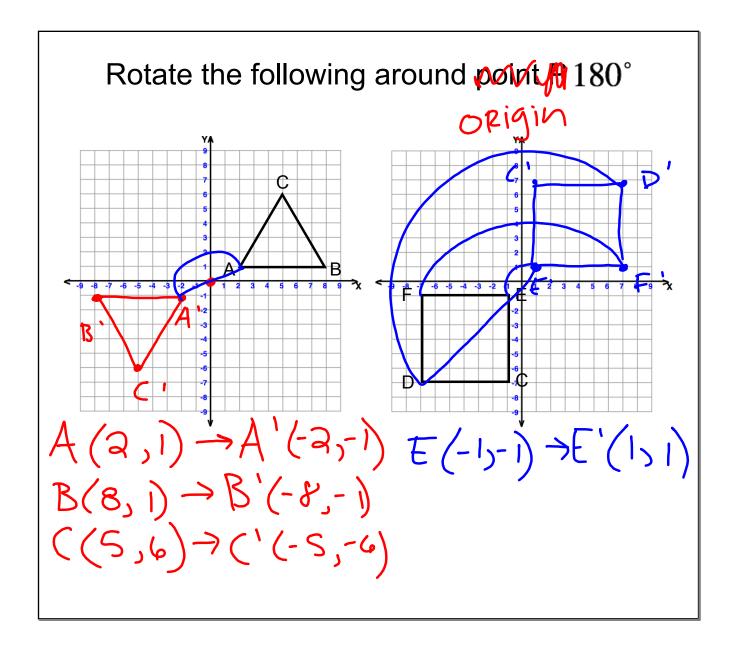
Sketch $R_{\overline{AB}}(ABCD)$ and state the resulting figure

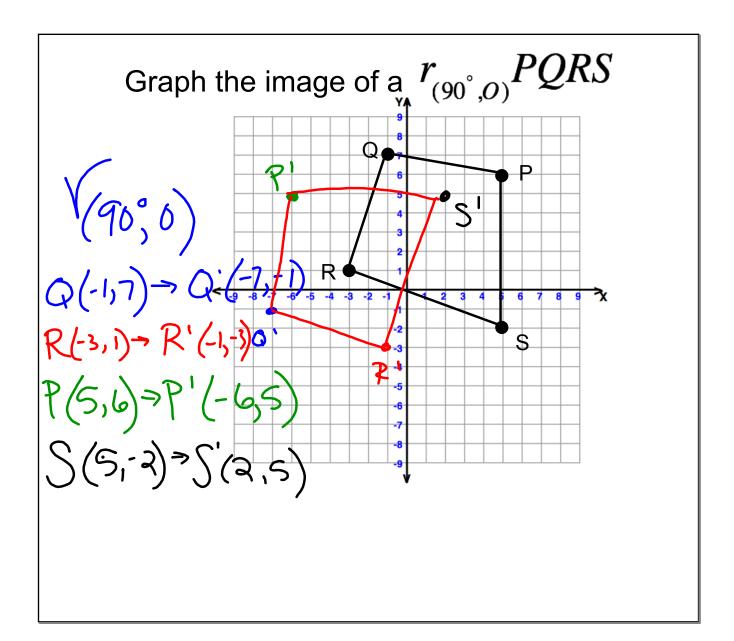


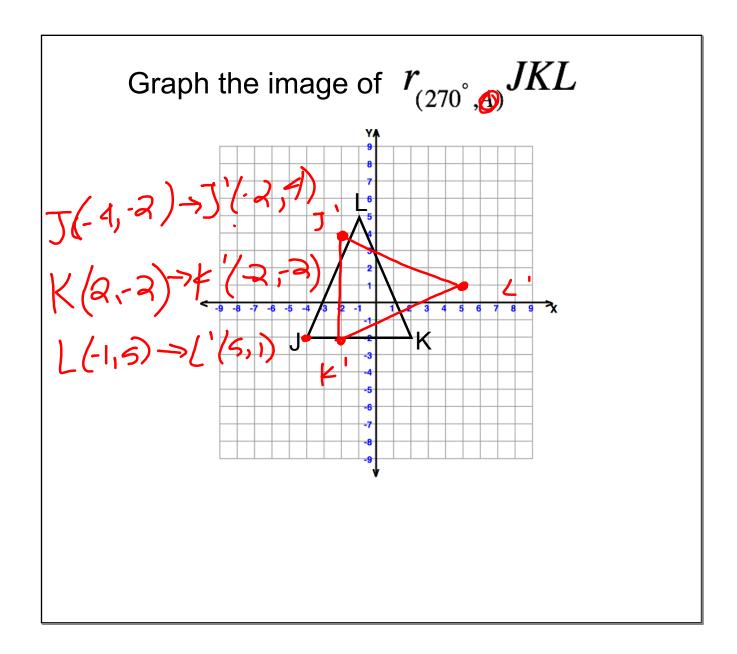


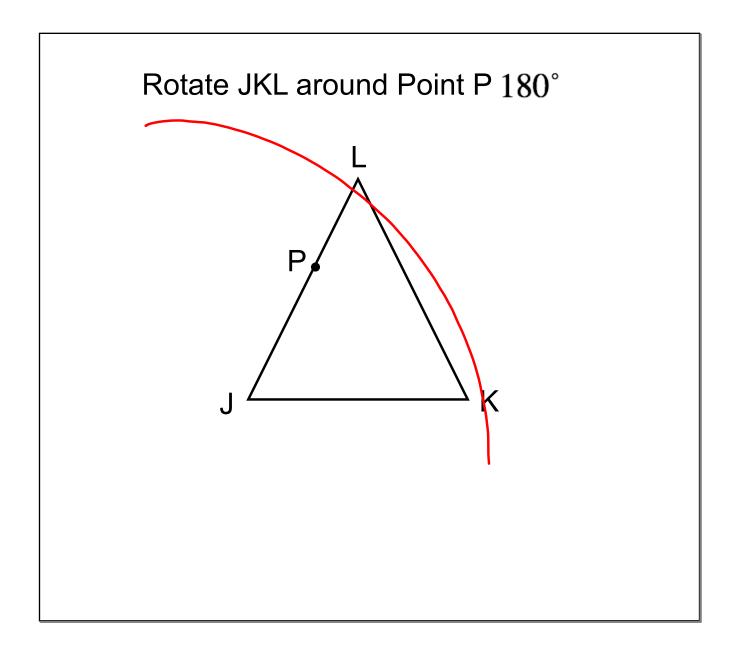


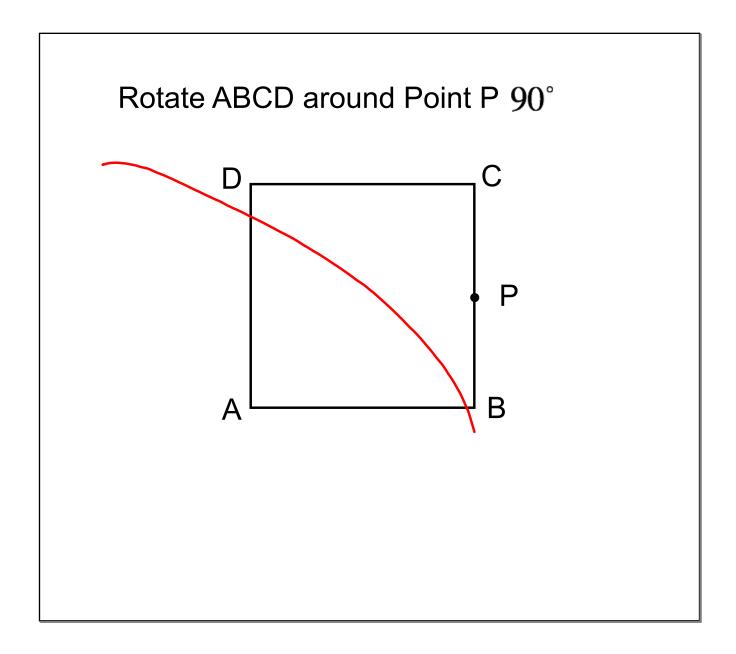
For a rotation of 90°: $(x, y) \longrightarrow (-y, x)$ For a rotation of 180°: $(x, y) \longrightarrow (-x, -y)$ For a rotation of 270°: $(x, y) \longrightarrow (y, -x)$ Change x = x = yChange x = x = y

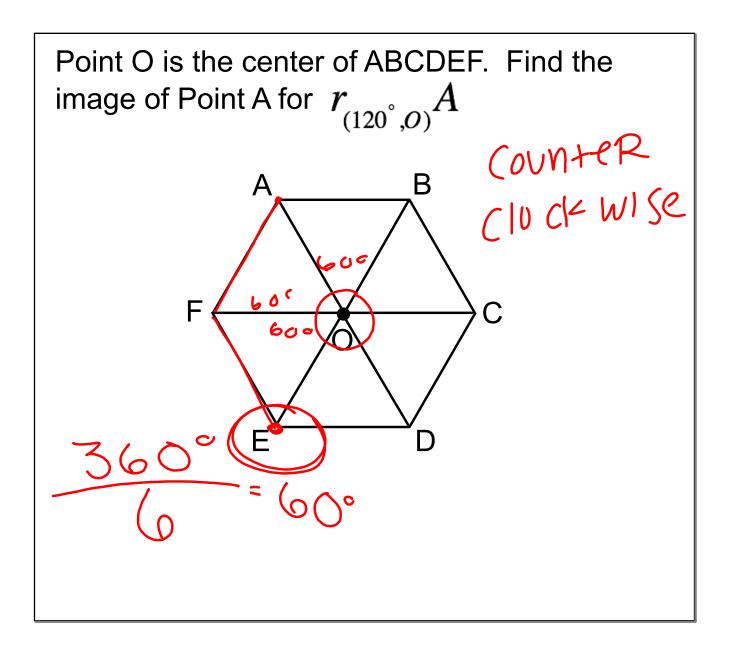


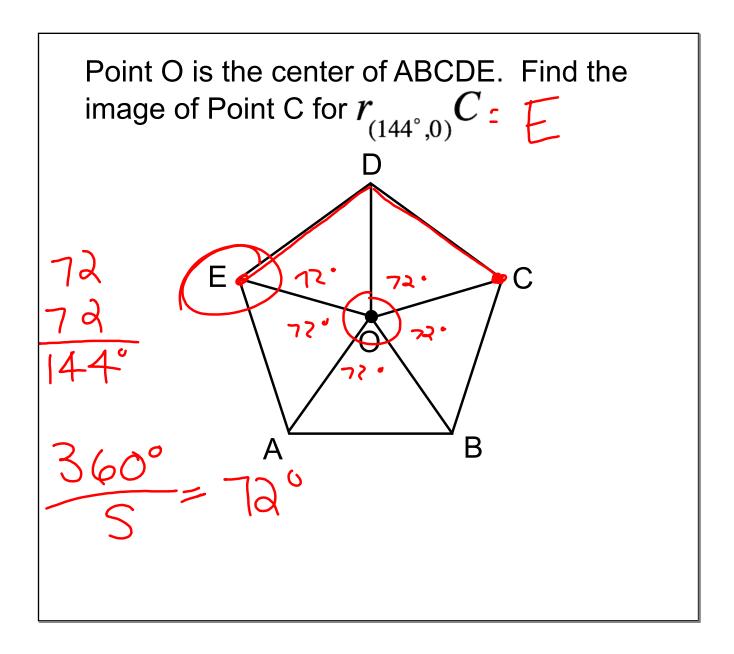




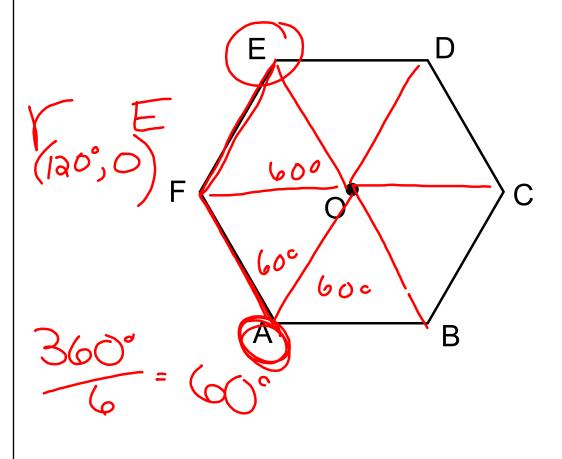








Find the <u>angle of rotation</u> that maps Point E to Point A around the center O.



Find the <u>angle of rotation</u> that maps Point C to Point A around the center O.

