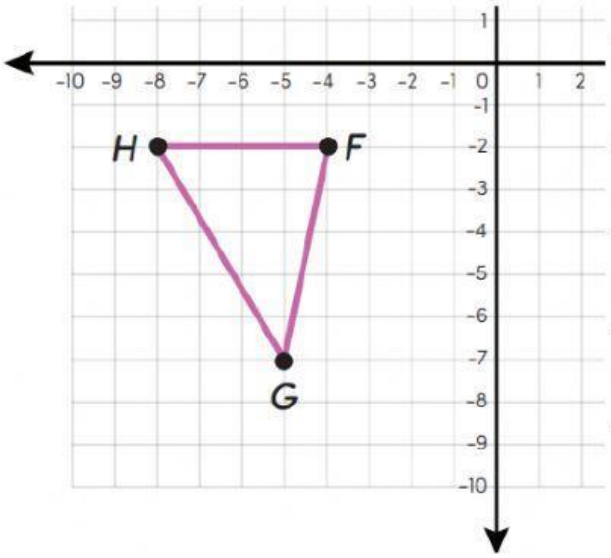
FORMATIVE ACTIVITY

ROTATION

Name: _____

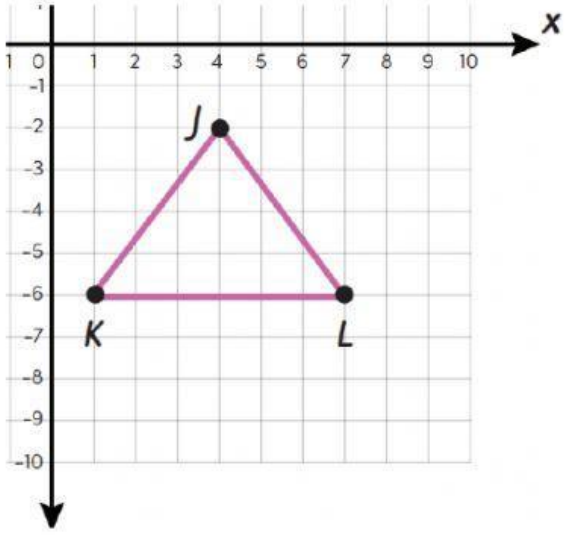
I. Look at the picture, and find the coordinate of your preimage and image.

the image of triangle FGH after a ***rotation 90° counterclockwise*** around the origin.



PREIMAGE	***IMAGE***
H (____, _____)	H' (____, _____)
F (____, _____)	F' (____, _____)
G (____, _____)	G' (____, _____)

the image of JKL after a rotation 270° counterclockwise around the origin.



PREIMAGE	***IMAGE***
K (____, _____)	K' (____, _____)
J (____, _____)	J' (____, _____)
L (____, _____)	L' (____, _____)

II. ***Answer the following questions***

1. The point B ($^{-}4$, 3) is rotated 90° counterclockwise around the origin. What are the coordinates of the resulting point, B'? **B' (____, ____)**

2. The point D ($^{-}6$, $^{-}6$) is rotated 270° counterclockwise around the origin. What are the coordinates of the resulting point, D'? **D' (____, _____)**

3. The point M (3, 4) is rotated 180° clockwise around the origin. What are the coordinates of the resulting point, M'? **M' (_____, _____)**

4. The point Q (5, 4) is rotated 270° counterclockwise around the origin. What are the coordinates of the resulting point, Q'? **Q' (_____, _____)**

5. rotation 180° about the origin Z (−1, −5), K (−1, 0), C (1, 1), N (3, −2)

   Z' (____, _____); K' (____, ____); C' (_____, ____); N' (____, ____)

III. ***Use your copybook, and draw the image after a 90° counterclockwise rotation***. SHOW YOUR WORK TO THE TEACHER.

1) 90^0 counterclockwise rotation