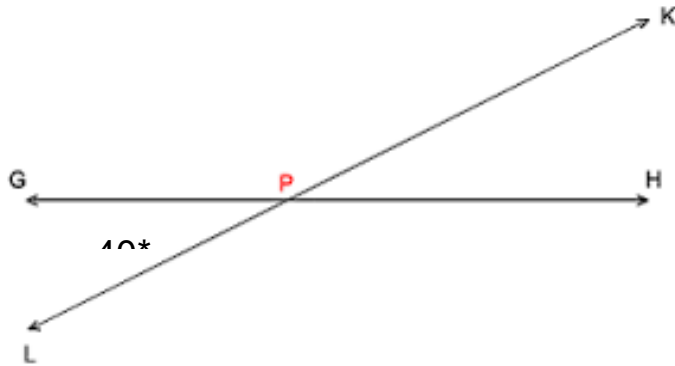


Name: \_\_\_\_\_

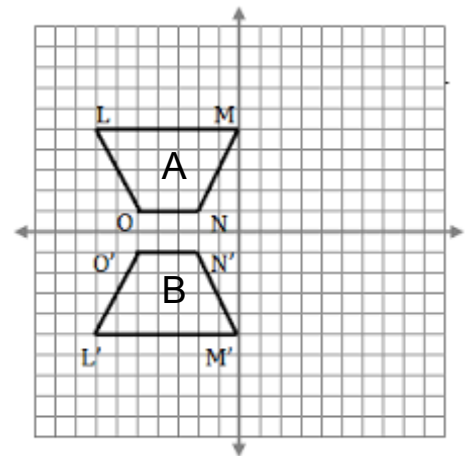
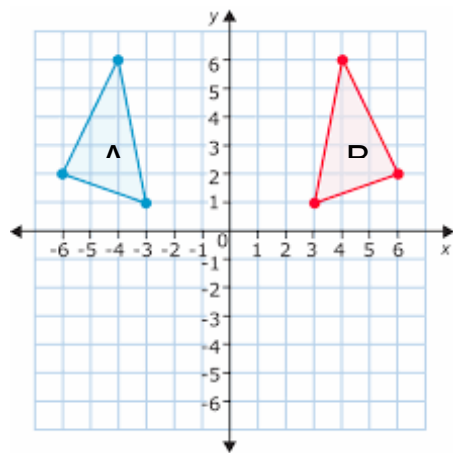
Unit 1 MPA SG

1) Lines GH and LK intersect at Point P.

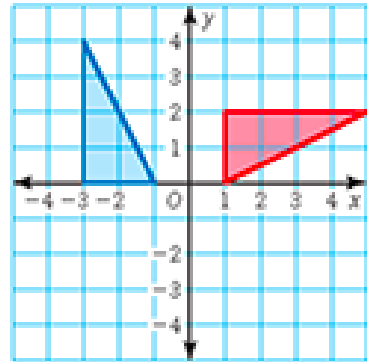
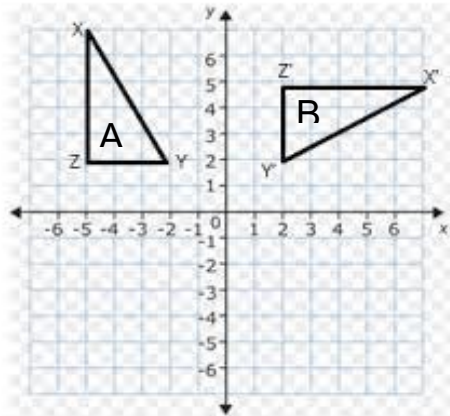


What is the angle measure of Angle KPH? Explain how you know.

2) Name which transformation takes Figure A to Figure B in each picture? **Be specific!**

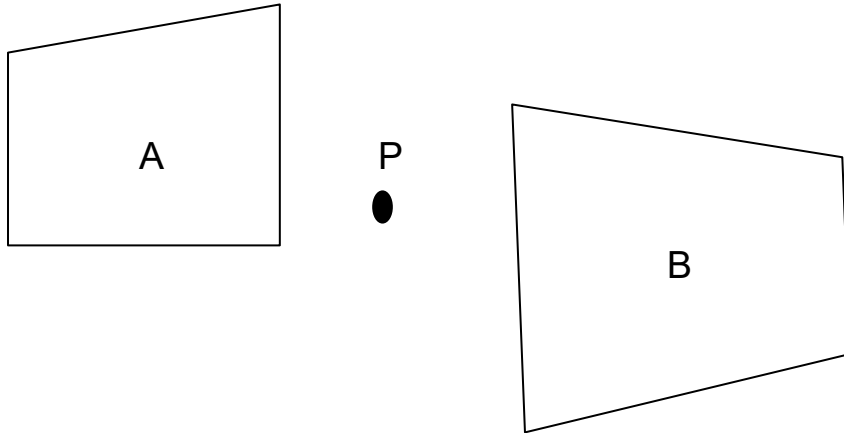


Name: \_\_\_\_\_

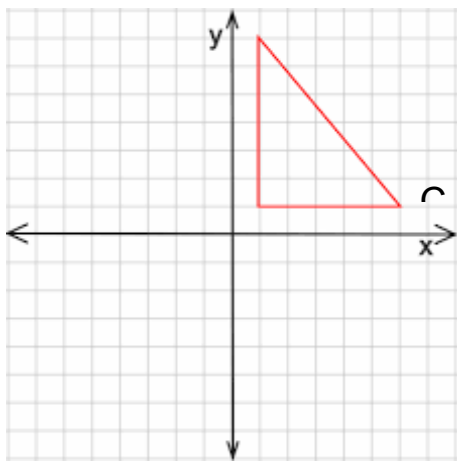


3) Explain why Figure B is not the image of Figure A after a rotation using Centerpoint P.

after a rotation using Centerpoint P.



4) Perform the following transformations on Triangle ABC.



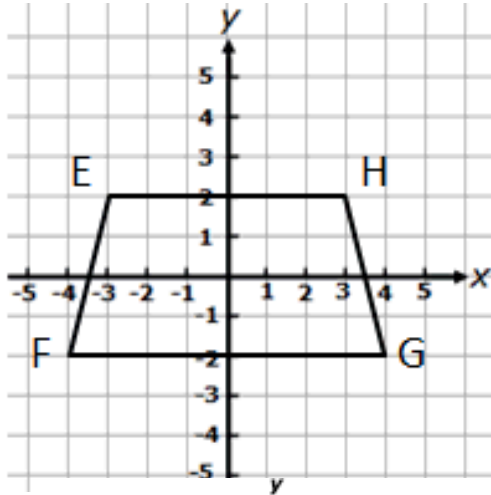
a. Rotate Triangle ABC 270 degrees counterclockwise using the origin as the center of rotation. Label the image as Triangle DEF.

b. Reflect Triangle ABC across the y-axis. Label the image as Triangle GHI.

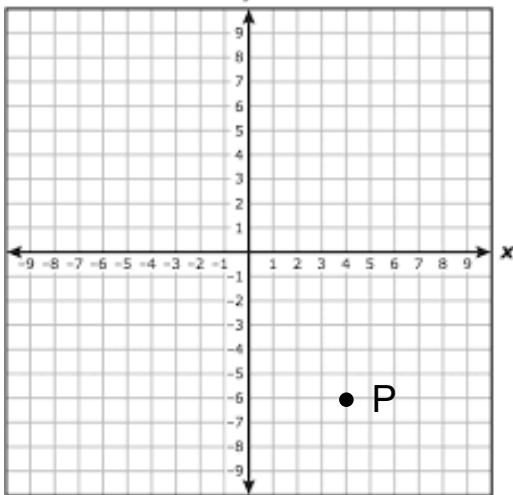
Name: \_\_\_\_\_

Unit 1 MPA SG

5) Reflect Quadrilateral EFGH across the x-axis, then translate the image up 2 units and right 1 unit. Label this image as Quadrilateral MNOP.



6) Point P is located at coordinates (4, -6). What are the coordinates of the following points?



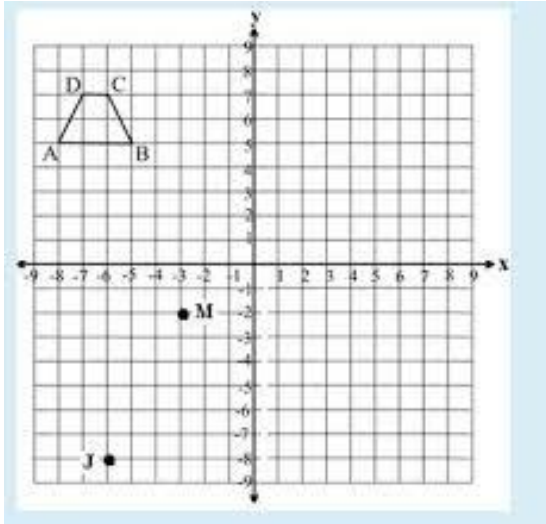
a. Point M is the image of Point P after a rotation of 180 degrees using (0,0) as the center of rotation.

b. Point R is the image of Point P after a translation 4 units left and reflecting using the x-axis.

c. Point W is the image of Point P after a reflection using the y-axis then translating 3 units down.

7) Draw the image of this figure under a 90 degree clockwise rotation using Center M.

Name: \_\_\_\_\_



8) The figure on the right is reflected using line  $l$  to form the image on the left. Label the image as Polygon  $J'K'L'M'N'$  Use the information in the original figure to label the corresponding parts in the image and original.

