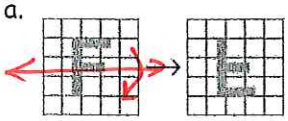
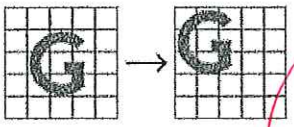
Practice for Transformation Test Key

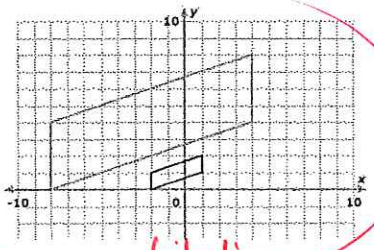
1. Identify each transformation. Circle the one that is not an isometry.

a. 

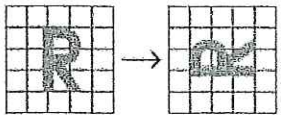
reflect

b. 

translate

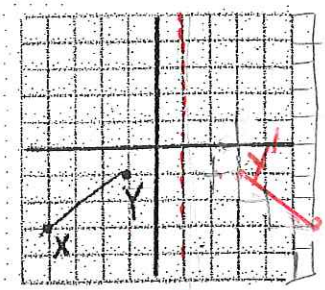
c. 

dilation

d. 

rotation

2. Reflect the segement over the line x = 1

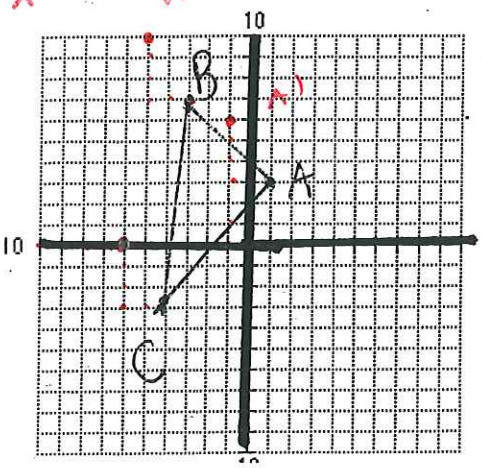


(oops) off graph

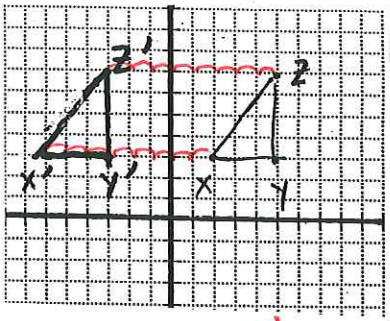
3. Find the coordinates of the image

(x,y) ⟶ (x-2, y+3)

A' (-1, 6) B' (-5, 10) C' (-6, 0)

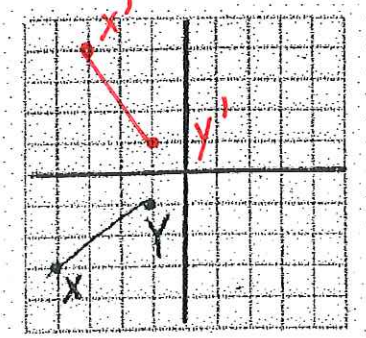


4. The shape was translated. Write the **vector** which performed the translation.



<-8, 0>

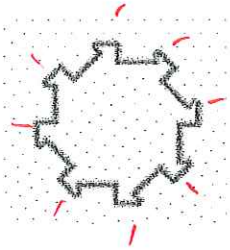
5. Rotate segment XY 90° clockwise about the origin



6. Identify the symmetry of each shape (give specifics)

a. 

5 lines
72°

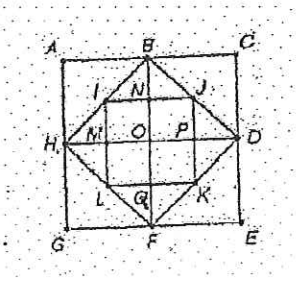
b. 

45°
no lines

7. Tell what segment the given segment would like after it is rotated about O.

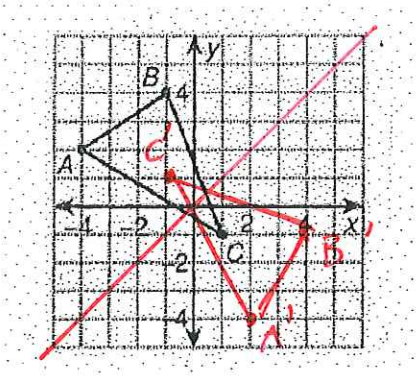
a. 90° clockwise of $\overline{MI}$ $\overline{NJ}$

b. 180° of $\overline{AB}$ $\overline{EF}$



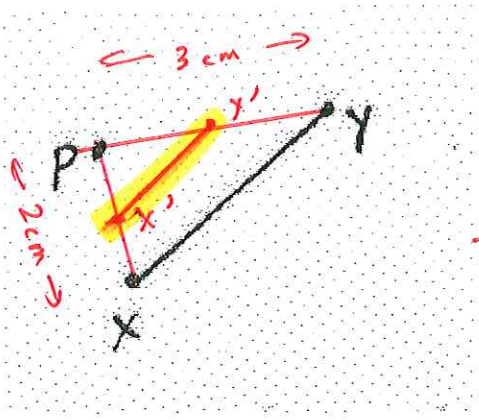
c, 90°counterclockwise of ΔDEF
ΔBCD

8. Reflect ΔABC over the line y = x



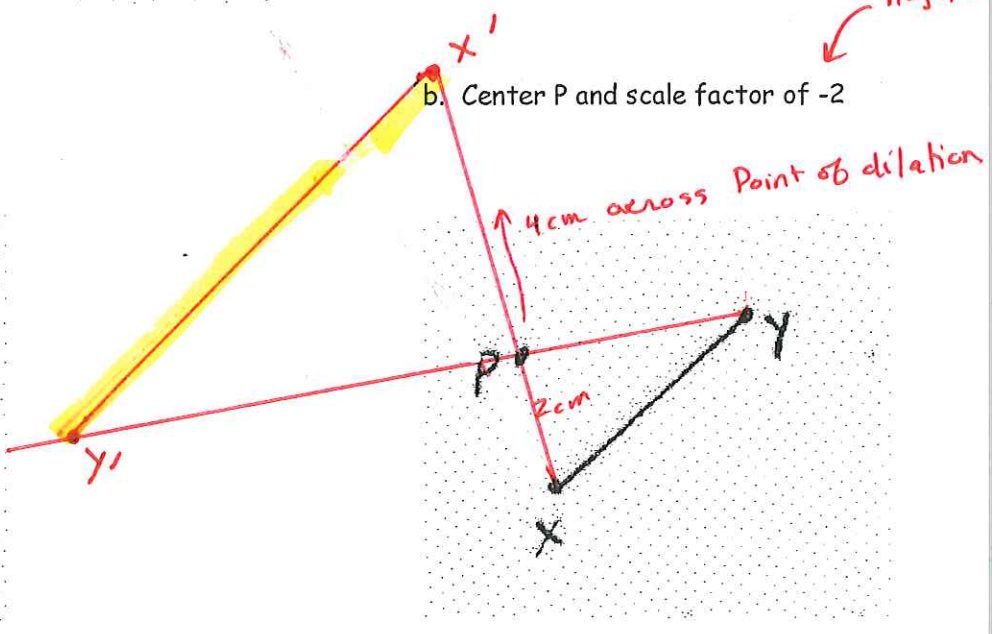
9. Dilate each:

a. Center P and scale factor of $\frac{1}{2}$



Use ruler

b. Center P and scale factor of -2 ← negative



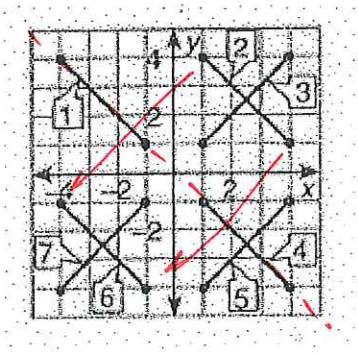
10. Use the diagram at right to perform each reflection. Give the segment that is the image.

a. Segment 4 over the x-axis

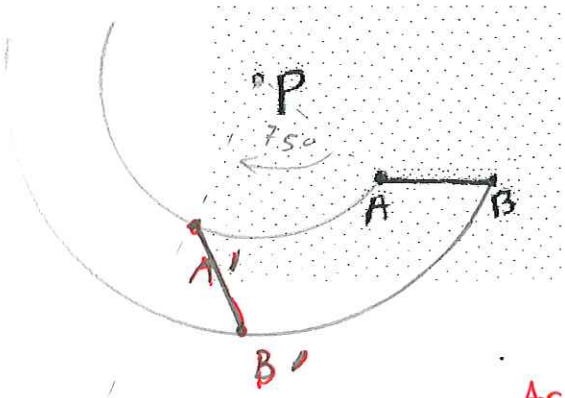
3

b. Segment 2 over the line y = −x

6



11. With a compass and a straightedge, construct the rotation of $\overline{XY}$ 75° clockwise about P



Are you putting ' (apostrophes) on image?