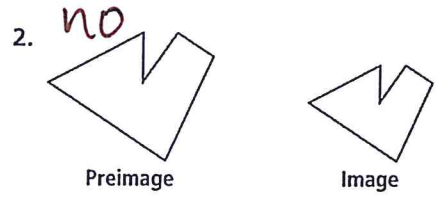
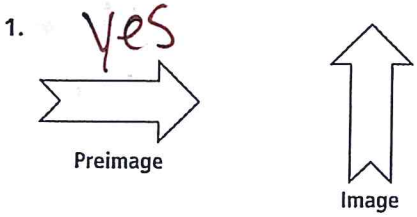


Chapter 9 Review

Lessons 9-1 through 9-4

Do you know HOW?

State whether the transformation appears to be an isometry. Explain.



3. If $GHIJ \rightarrow G'H'I'J'$, what is the image of I ? What is the image of \overline{GH} ?

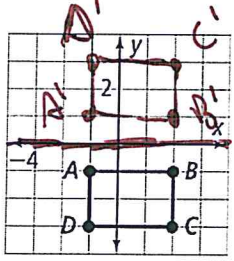
I'
 $\overline{G'H'}$

4. Point $R(x, y)$ moves 13 units right and 14 units down. What is a rule that describes this translation?

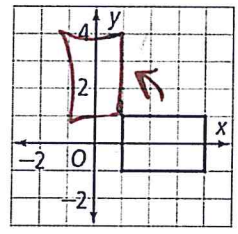
$(x+13, y-14)$

Draw the image of each figure for the given transformation.

5. reflection across $y = 0$

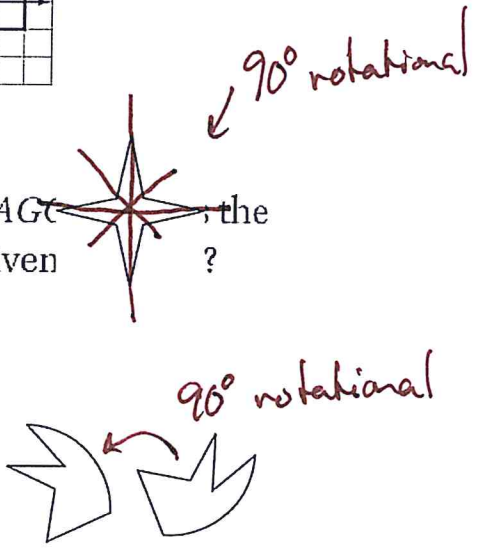
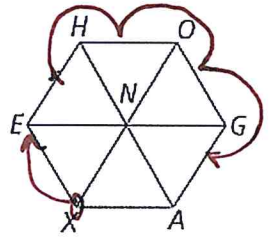


6. 90° rotation about the origin



7. Sketch the line(s) of symmetry. For rotational symmetry,

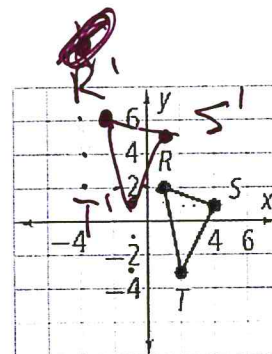
Point N is the center of regular hexagon $HEXAGN$. the image of the given point or segment for the given



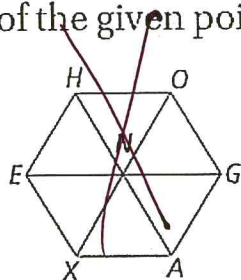
a. 60° rotation of X about N **E**

b. 180° rotation of \overline{HE} about N
 \overline{AG}

What are the vertices of the image of $\triangle RST$ for the translation $(x, y) \rightarrow (x - 3, y + 4)$? Graph the image.



Point N is the center of regular hexagon $HEXAGO$. What is the image of the given point or segment for the given rotation?



- a. 60° rotation of X about N
- b. 180° rotation of \overline{HE} about N