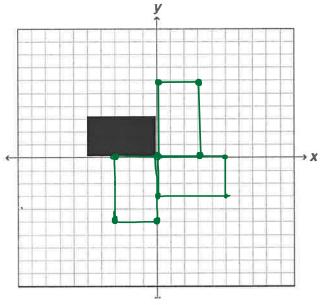
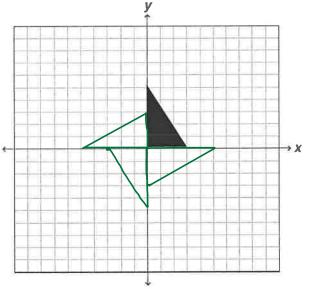
- 1. Rotate the rectangle about the origin through angles of:
 - a. 90 degrees
 - b. 180 degrees
 - c. 270 degrees



- 2. Rotate the triangle about the origin, using these angles:
 - a. 90 degrees
 - b. 180 degrees
 - c. 270 degrees



3. Study Figures I and II.

Which transformation of Figure I is shown in Figure II?

Reflection



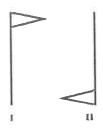


I

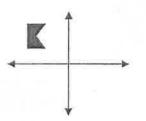
II

4. Study figures I and II.

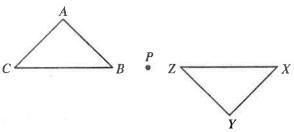
Which transformation, if any, of Figure I is shown in Figure II?

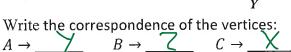


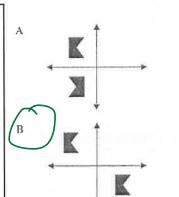
5. Which represents a translation of the figure \rightarrow

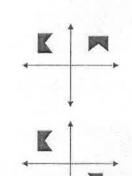


6. $\triangle XYZ$ was obtained from $\triangle ABC$ by a rotation about the point P.



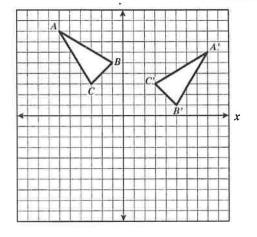




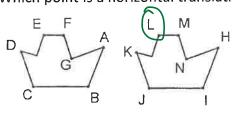


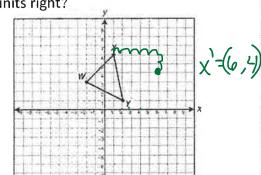


- 7. Triangle A'B'C' is apparently \rightarrow
- A translation of triangle ABC across the x-axis O A.
- A 90° clockwise rotation of triangle ABC about the origin **●**B.
- O C. A reflection of triangle ABC across the y-axis
- O D. A reflection of triangle ABC across the x-axis



- 8. Name the image of **X** when triangle WXY is translated 2 units down and 5 units right?
- 9. Which point is a horizontal translation of E?





- 10. Write a rule for the composition if a point is
 - A. Rotated 270°, then reflected across y = -x and finally translated 5 left and 7 up.

$$(x,y) \rightarrow (y,-x) \rightarrow (x,-y) \rightarrow (x-5,-y+1)$$

B. Rotated 270°, then translated 5 left and 7 up and finally reflected across y = -x.

