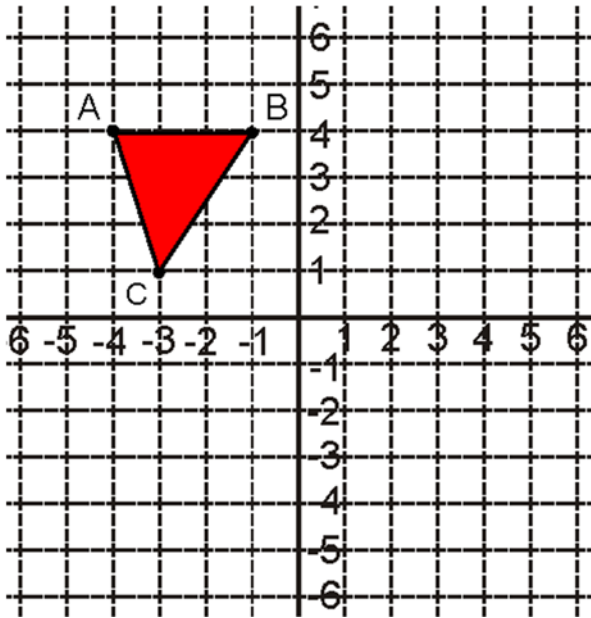


1. Reflect  $\triangle ABC$  across the x-axis.

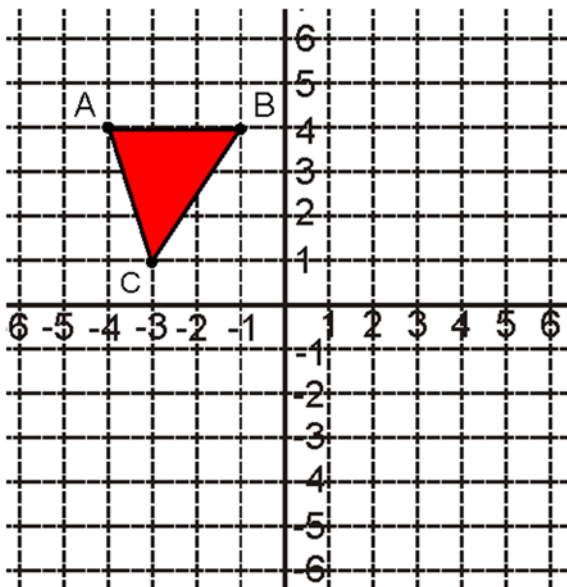


2. Of the two figures in the graph to the left; the original and the reflection, which shape is the image and which is the pre-image?

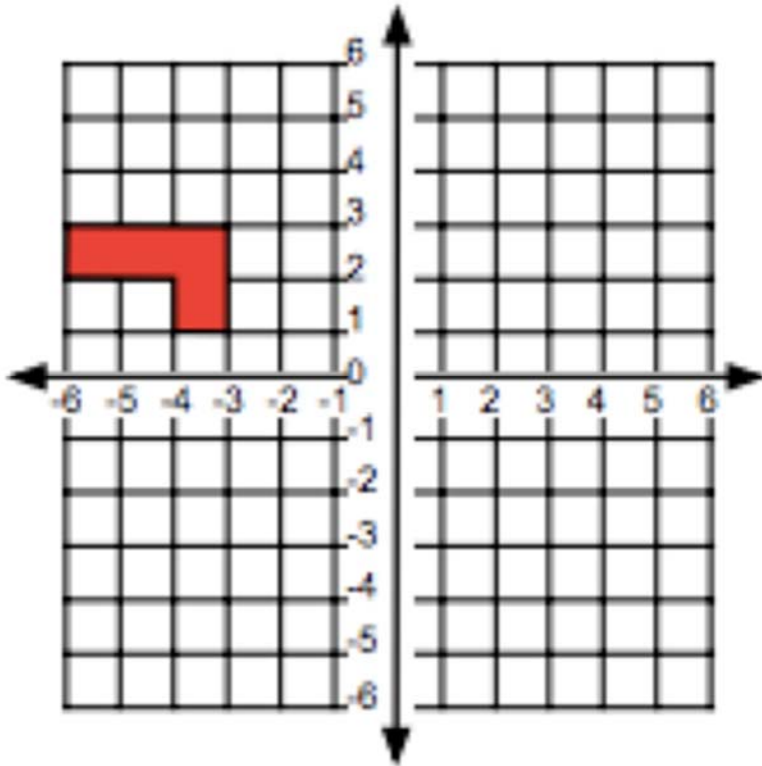
Image is:

Pre-image is:

3. Translate the triangle right 6 units.



4. Rotate the figure  $90^\circ$  clockwise about the origin.



5. What are two other names for rigid transformations?

6. Use the reflection of a point across a line to locate point **H**, the best place to connect **F** and **G** so that the distance **FG + GH** is minimized.



7. Since **H** minimizes the distance from **F** to **G'**, it also minimizes the distance from **F** to **G**. Why is this true?