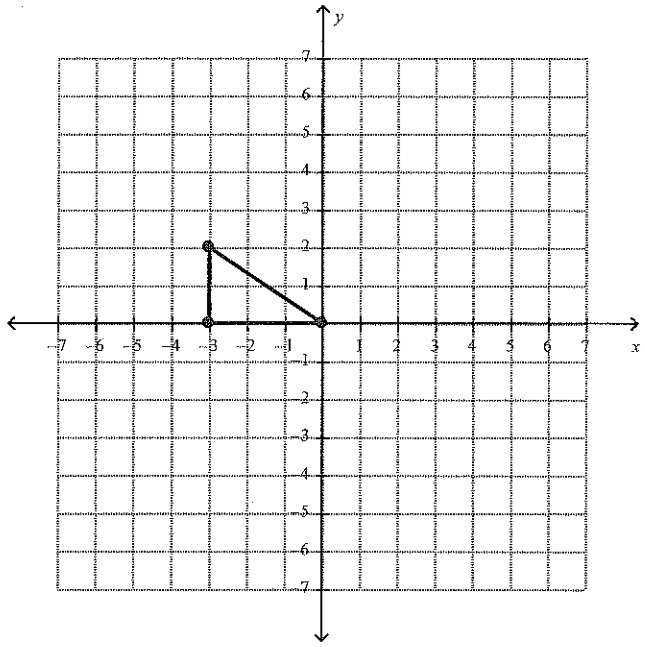
NAME_____

Sequencing Transformations

1. Apply the sequence of transformation listed below, sketching a new image after each. Apply each transformation to the most recent image, <u>not the original pre-image</u>.

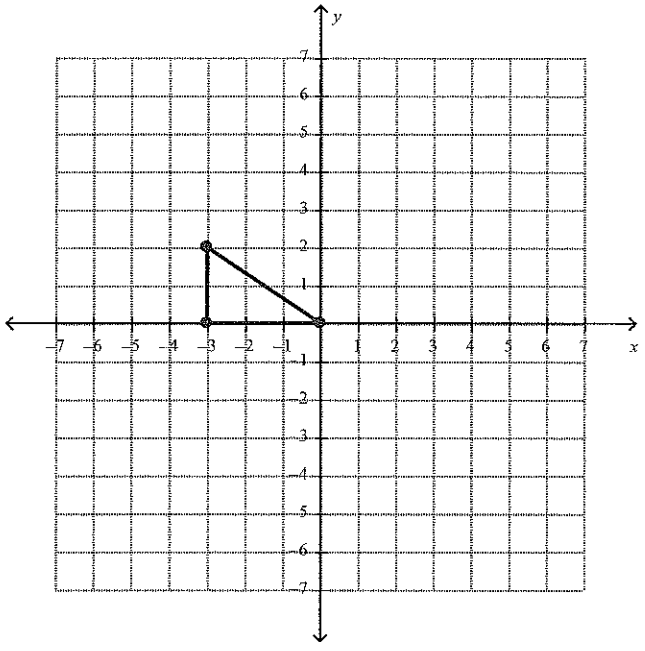
   a. Reflect it over the y-axis.
   b. (x, y) → (x, y – 5)
   c. Rotate it 90° counter clockwise.
   d. (x, y) → (x – 6, y)



1. Apply the sequence of transformation listed below, sketching a new image after each. Apply each transformation to the most recent image, <u>not the original pre-image</u>.

   a. Rotate 180°.
   b. Reflect over the y-axis.
   c. Reflect over the x-axis.

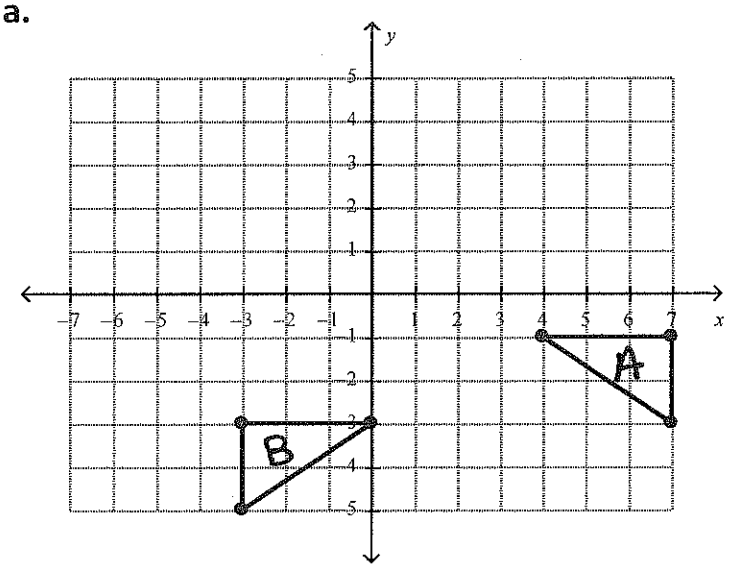
What do you notice about the location of the triangle right now? Why might this be?



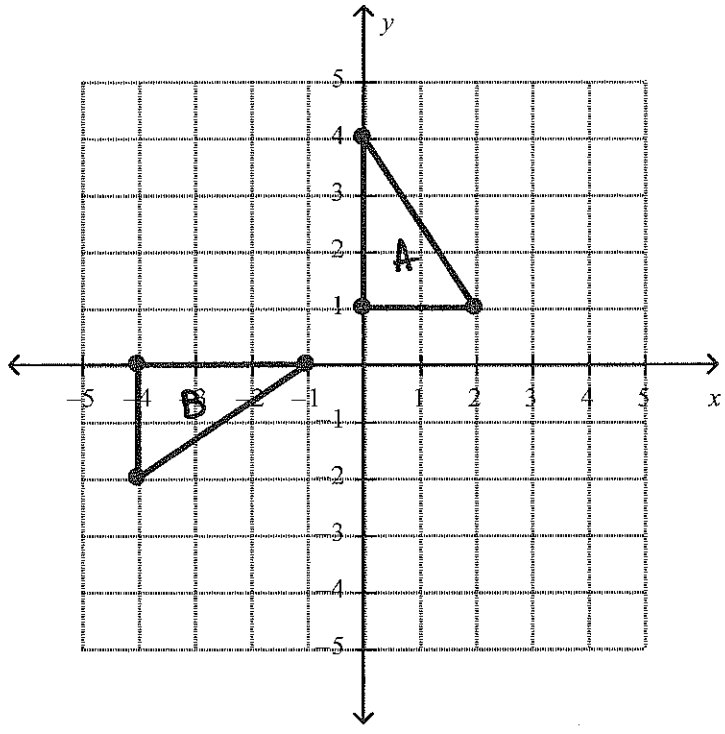
   d. Dilate by a scale factor of 2.
   e. (x, y) → (x + 7, y + 3)
   f. Reflect over the line x= 1.
   g. Rotate 180°.

2. For each of the following identify a sequence of transformations that would translate triangle A to triangle B. The goal is to accomplish this in the least amount of steps possible.

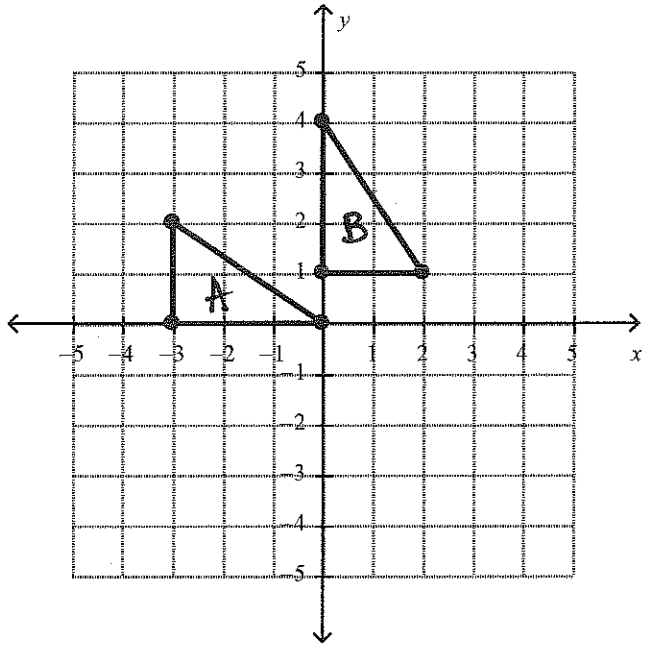
a.



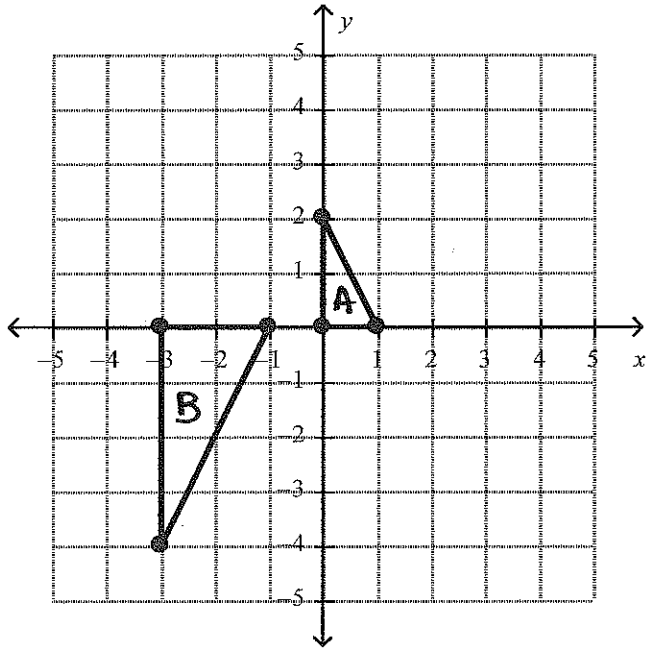
b.



c.



d.



e.