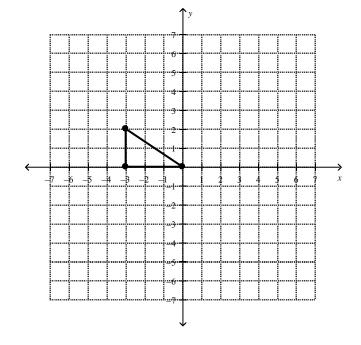
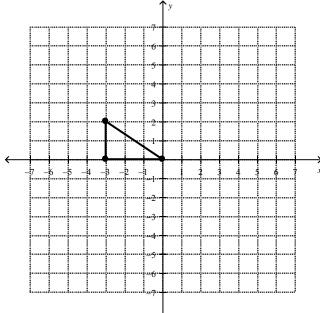
Sequencing Transformations

- 1. Apply the sequence of transformation listed below, sketching a new image after each. Apply each transformation to the most recent image, not the original preimage.
 - a. Reflect it over the y-axis.
 - b. $(x, y) \rightarrow (x, y 5)$
 - c. Rotate it 90° counter clockwise.
 - d. $(x, y) \rightarrow (x 6, y)$



- 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.

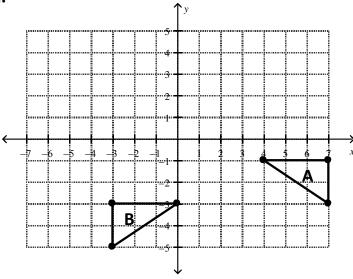
What do you notice about the location of the triangle right now? Why might this be?



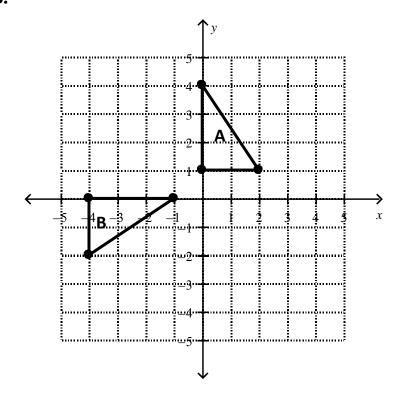
- d. Dilate by a scale factor of 2.
- e. $(x, y) \rightarrow (x + 7, y + 3)$
- f. Reflect over the line x= 1.
- g. Rotate 180°.

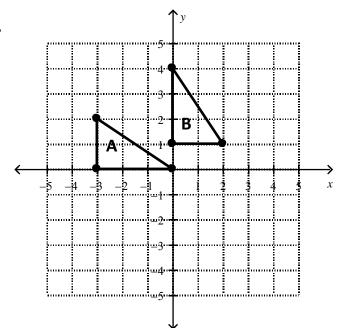
2. For each of the following identify a sequence of transformations that would translate triangle A to triangle B. The goal is to accomplish this in the least amount of steps possible.

a.

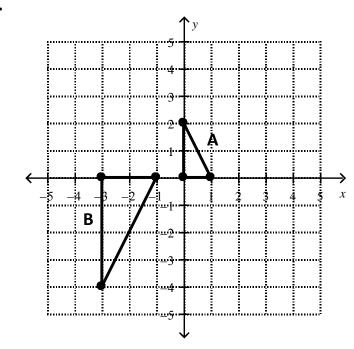


b.





d.



e.

