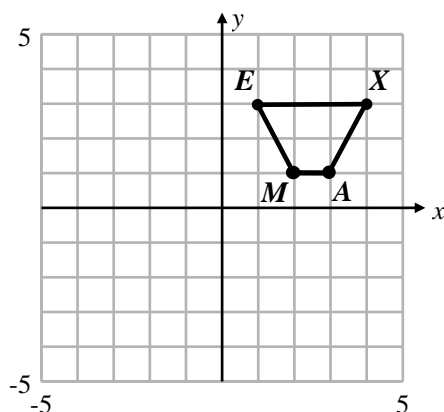




Composition of Transformations #1



E _____ X _____ A _____ M _____

Draw the original shape (pre-image) and newly transformed shape (image) on each grid.

A. On grid A, reflect Figure *EXAM* over the *y*-axis. Rotate the figure 90° counter clockwise about the origin.

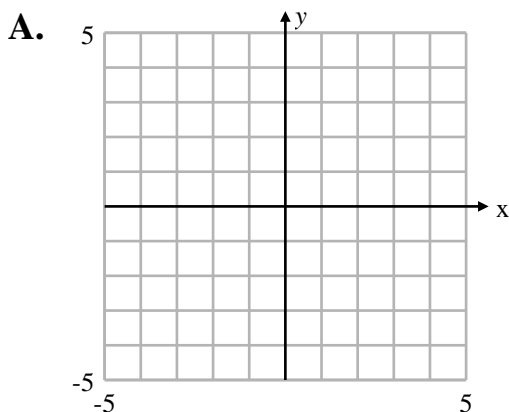
B. On grid B, translate the figure $(x, y) \rightarrow (x - 6, y - 3)$; reflect the figure over the *y*-axis.

C. Rotate the figure 180° clockwise about the origin; then reflect it over the *x*-axis.

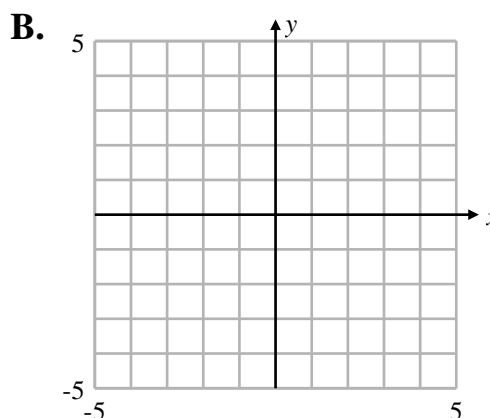
These two transformations are the same as performing what single transformation? _____

D. Reflect the figure over the *x*-axis; then reflect it over the *y*-axis.

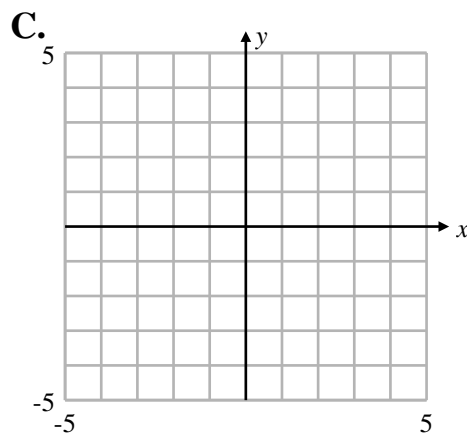
These two transformations are the same as performing what single transformation? _____



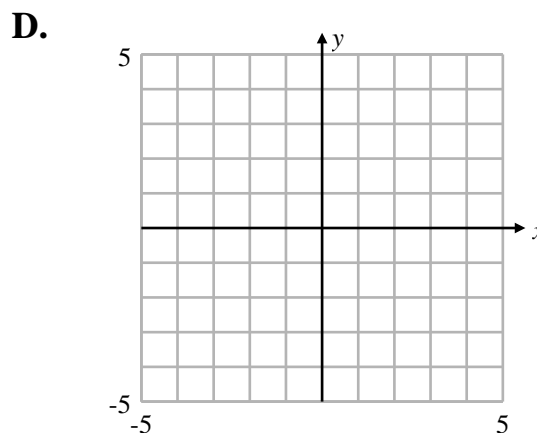
E'' _____ X'' _____ A'' _____ M'' _____



E'' _____ X'' _____ A'' _____ M'' _____



E'' _____ X'' _____ A'' _____ M'' _____

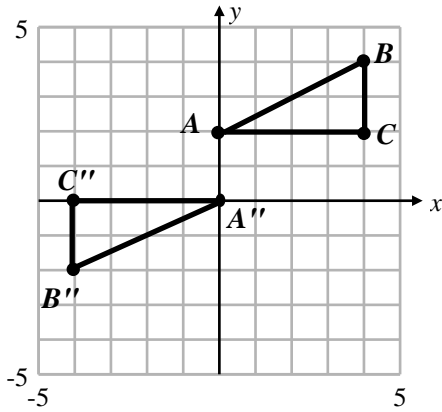


E'' _____ X'' _____ A'' _____ M'' _____

Determine the series of transformations that was performed on each pre-image to obtain each image. BE SPECIFIC. FOR EXAMPLE, IF THE PRE-IMAGE WAS ROTATED YOU MUST INCLUDE THE DEGREES AND THE DIRECTION. IF THE PRE-IMAGE WAS REFLECTED YOU MUST SAY OVER WHICH AXIS AND/OR EXPLAIN THE MOVEMENT BETWEEN QUADRANTS.

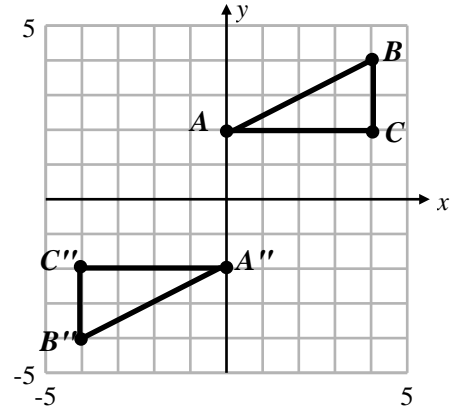
DRAW IN THE FIRST IMAGE

A.



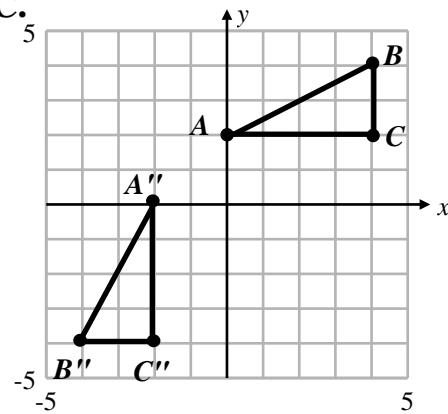
Transformation List:

B.



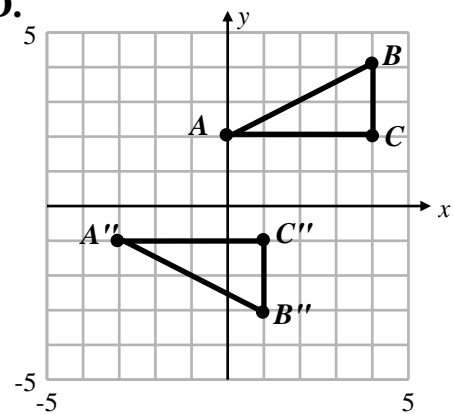
Transformation List:

C.



Transformation List:

D.



Transformation List:
