

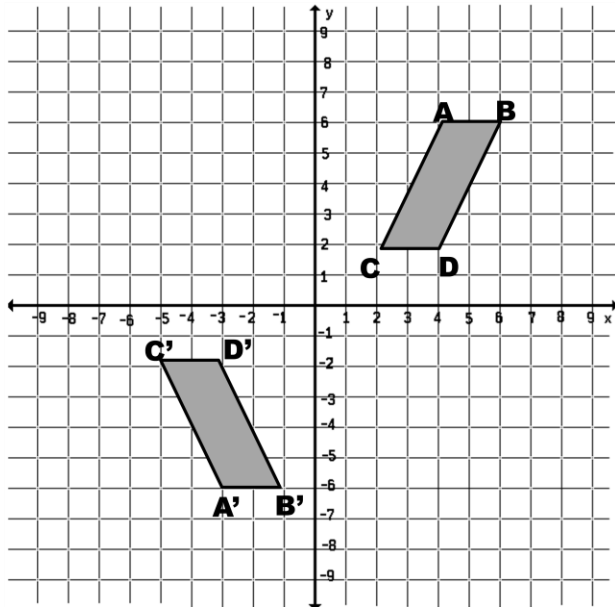
Composition of Transformations Notes

Name _____

Composition of Transformation: any combination of a reflection, rotation, translation, or dilation. The new image could be similar (**non-rigid transformation**) or congruent (**rigid transformation**) to the original.

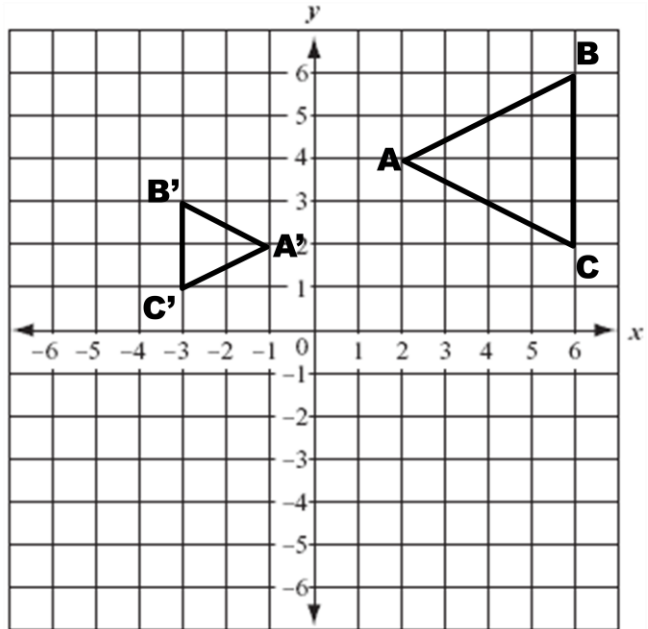
Examples:

1) What transformations and/or dilations have occurred?



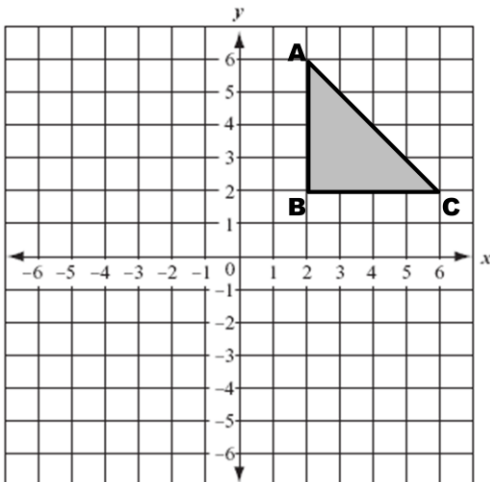
Are the figures similar or congruent?

2) What transformations and/or dilations have occurred?



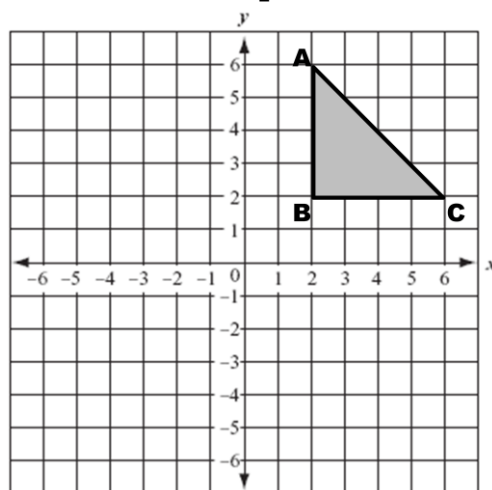
Are the figures similar or congruent?

3) Dilate the object with a scale factor of $\frac{1}{2}$, then rotate 90° clockwise.



Give the new coordinates

4) Rotate the figure 180° counterclockwise, then translate 5 units up.

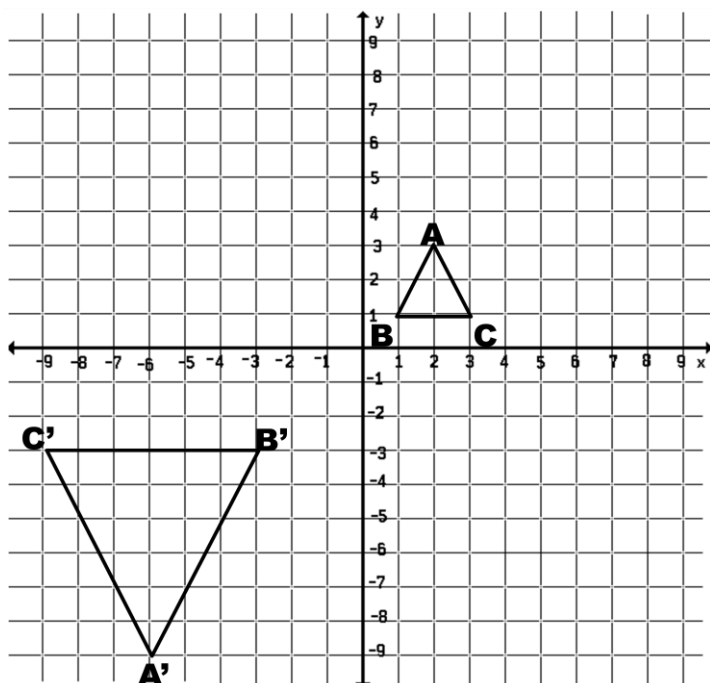


Give the new coordinates



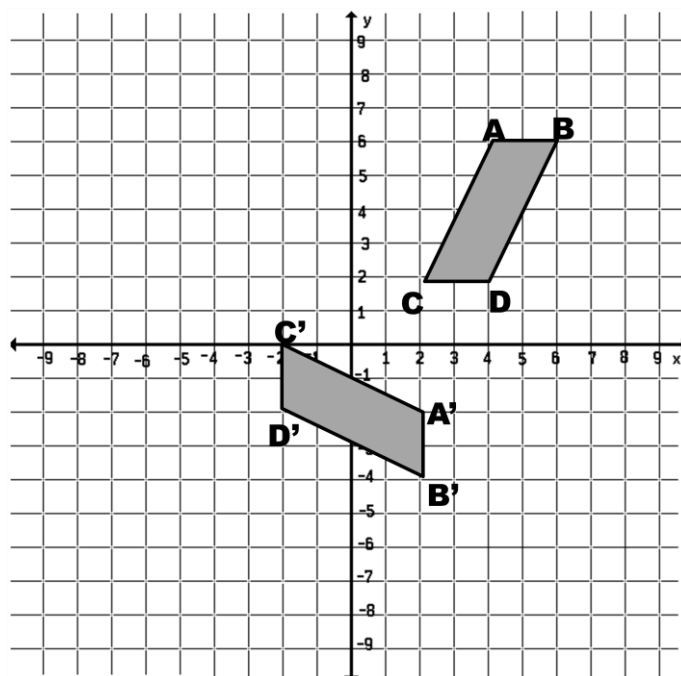
Pause the video and try the ones on the back on your own!
Then press play and check your answers with a color pen.

1) What transformations and/or dilations have occurred?



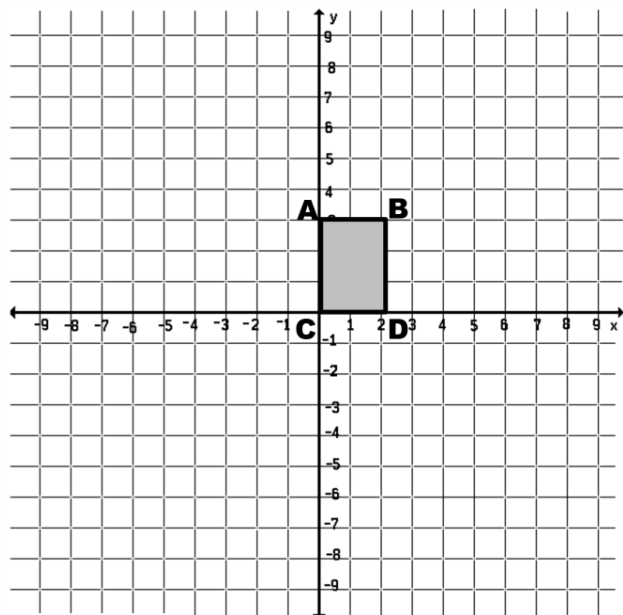
Are the figures similar or congruent?

2) What transformations and/or dilations have occurred?



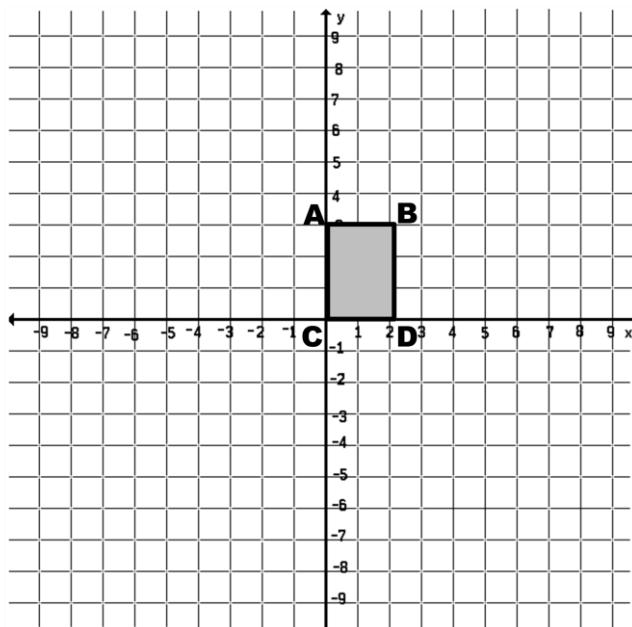
Are the figures similar or congruent?

3) Reflect over the y-axis, then dilate to a scale factor of 3.



Give the new coordinates.

4) Rotate 90° counterclockwise, translate 6 units down, then reflect over the x-axis.



Give the new coordinates.