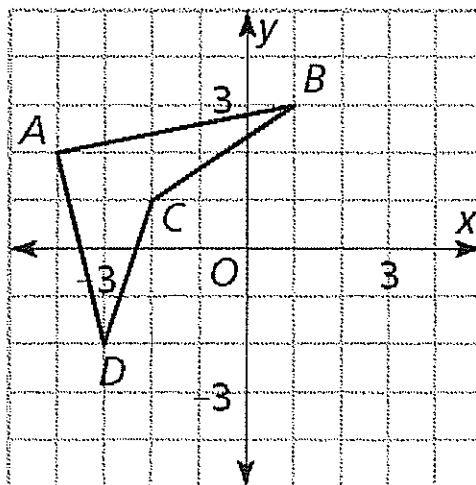
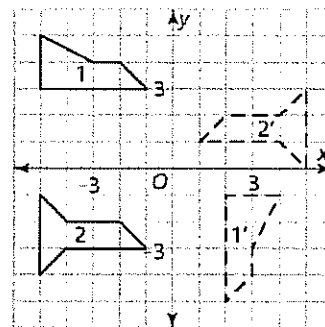


4. Draw the final image created by rotating polygon $ABCD$ 90° counterclockwise about the origin and then reflecting the image over the x -axis.

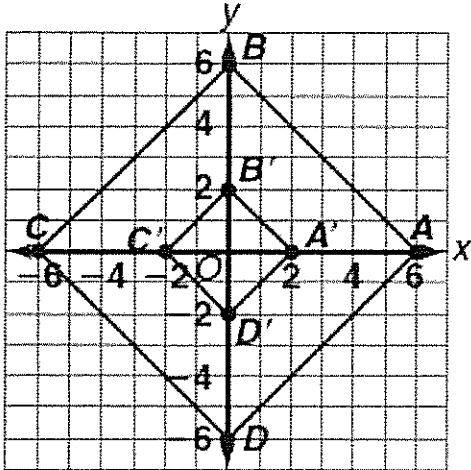


- Is the resulting image similar or congruent?
How do we know?

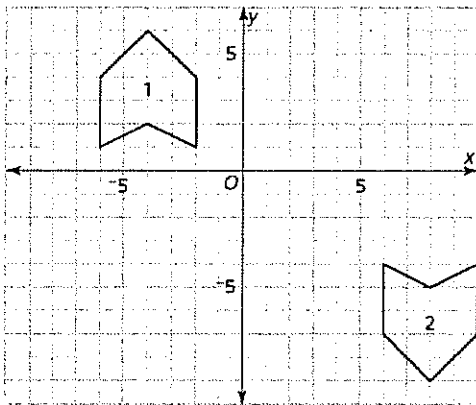
5. Describe how you could move shape 1 to exactly match shape 1' by using series of transformations?



6. Quadrilateral $A'B'C'D'$ is a dilation of quadrilateral $ABCD$. Find the scale factor. Classify the dilation as an enlargement or a reduction.



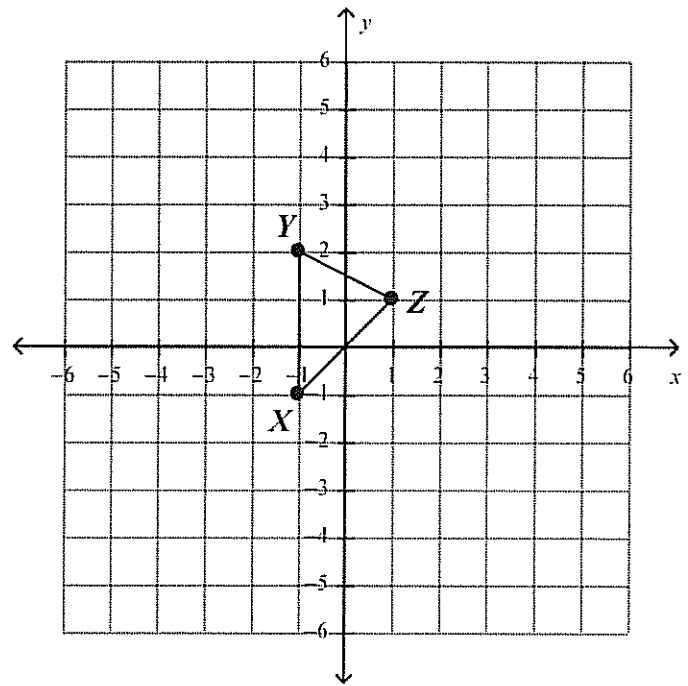
7. Refer to the grid below:



- a) Describe how you could move shape 1 to exactly match shape 2 by using a series of transformation(s).

- b) Is there another sequence of transformations that would move shape 1 to exactly match shape 2? If so, describe the steps you would perform.

8. Triangle XYZ is graphed below. Draw and label Triangle $X'Y'Z'$ after a dilation using a scale factor of two.



- What will be the coordinates of point Y'' after a reflection of polygon $X'Y'Z'$ over the x -axis?

9. Solve: $-2(m - 30) = -6m$

10. Solve: $8z - 22 = 3(3z + 11) - z$