

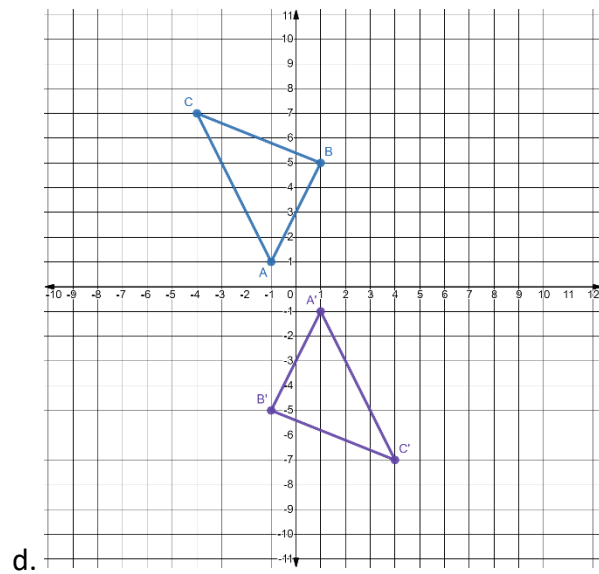
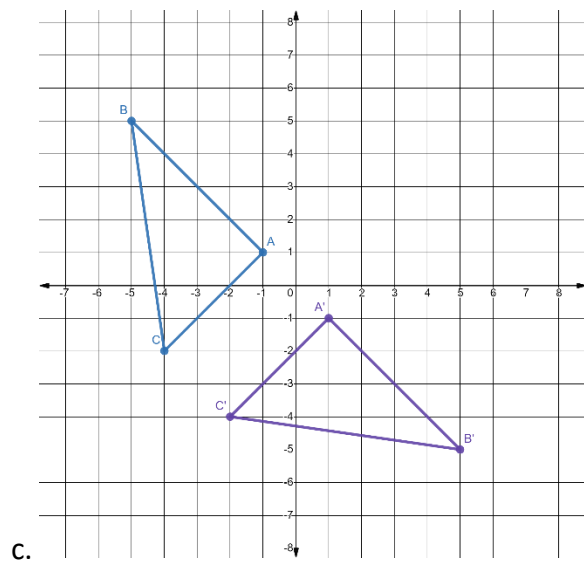
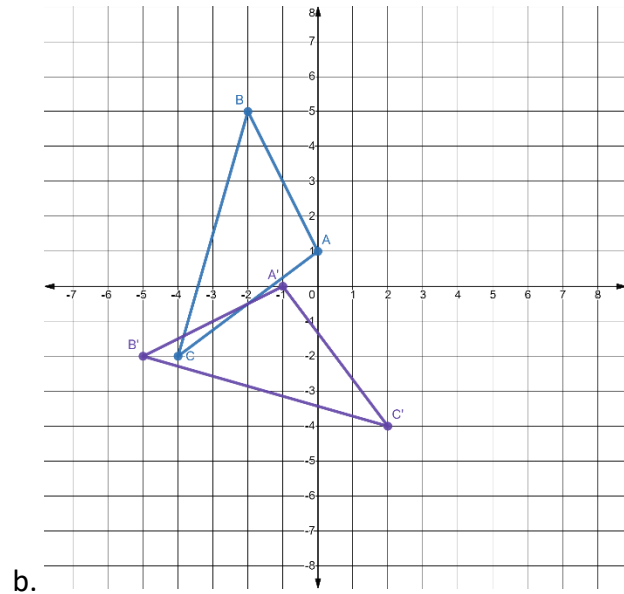
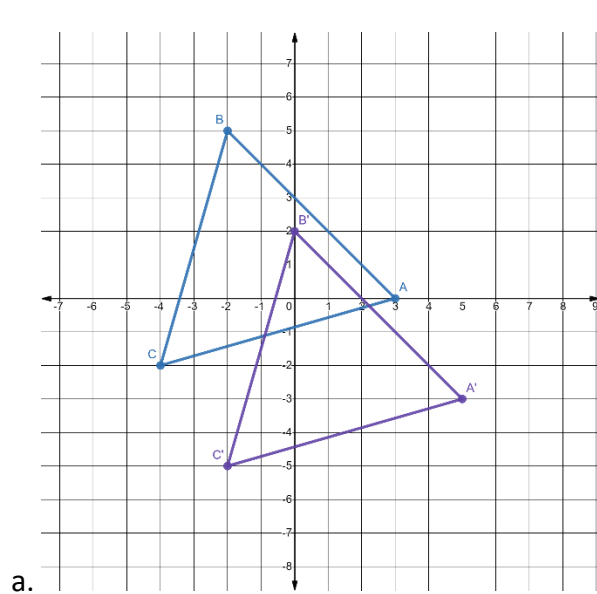
MATH



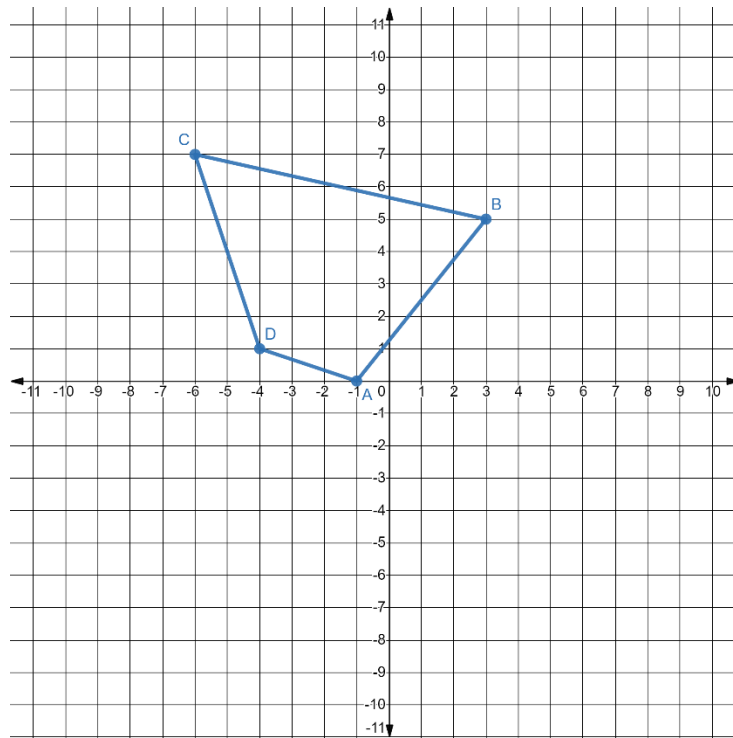
Rotations

Complete this assignment, which covers rotations, translations, and reflections.

1. In the four graphs below, determine what transformation was used to transform $\triangle ABC$ to $\triangle A'B'C'$. Then, for each one, write the correct description of the transformation along with the algebraic notation.



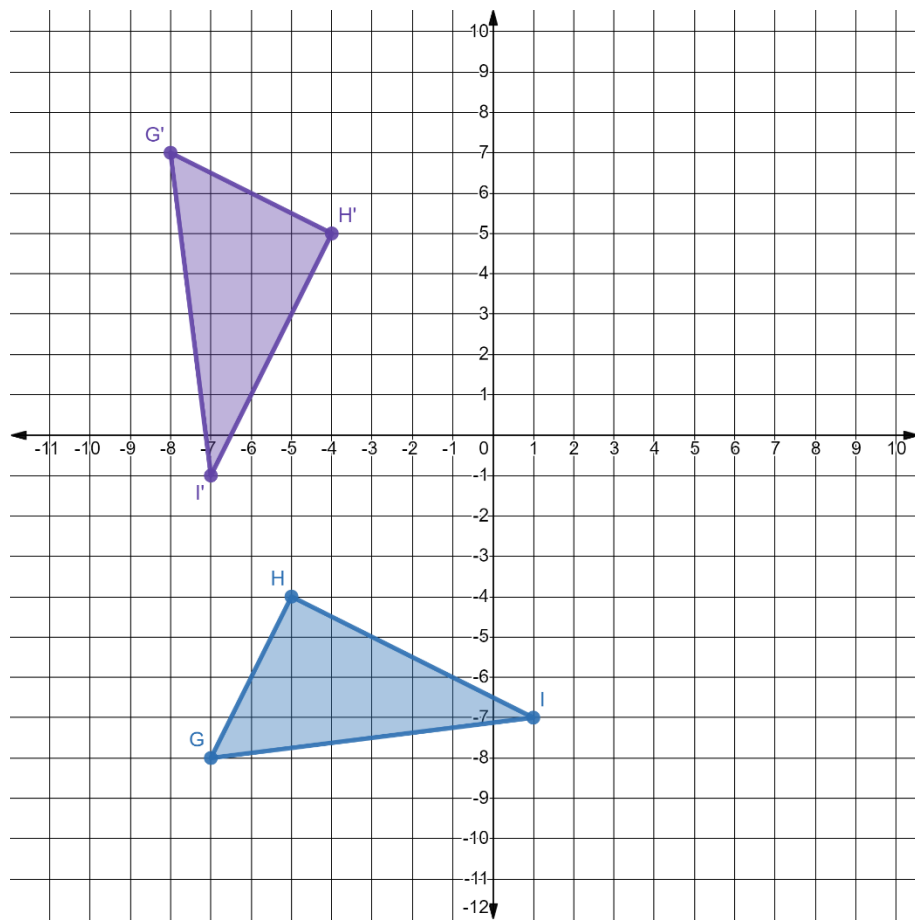
2.



The graph above is of Quadrilateral ABCD.

- Where will vertex A be located after a rotation of -90° ?
- Where will vertex B be located after a rotation of 90° ?
- Where will vertex C be located after a -180° rotation?
- Where will vertex D be located after a 270° rotation?

3. A rotation was performed on $\triangle GHI$ to transform it to $\triangle G'H'I'$, shown below.



What rotation angle was used and how can you prove that the two triangles are congruent?