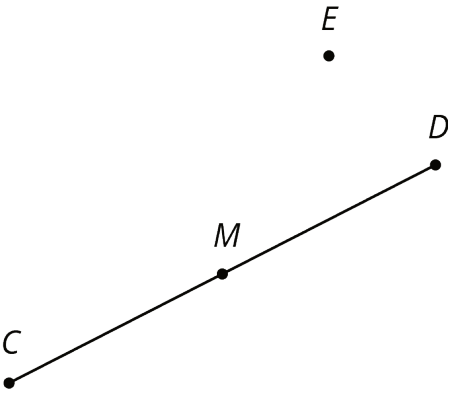
Lesson 8 Practice Problems

1. For the figure shown here,

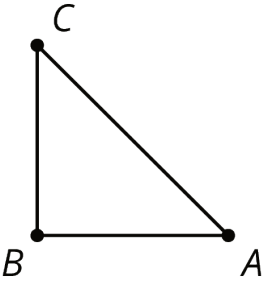


   a. Rotate segment CD 180° around point D.

   b. Rotate segment CD 180° around point E.

   c. Rotate segment CD 180° around point M.

2. Here is an isosceles right triangle:



   Draw these three rotations of triangle ABC together.

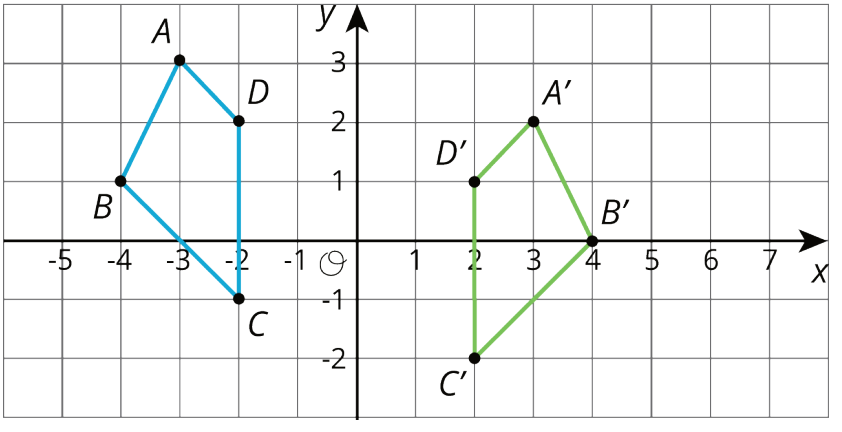
   a. Rotate triangle ABC 90 degrees clockwise around A.

   b. Rotate triangle ABC 180 degrees around A.

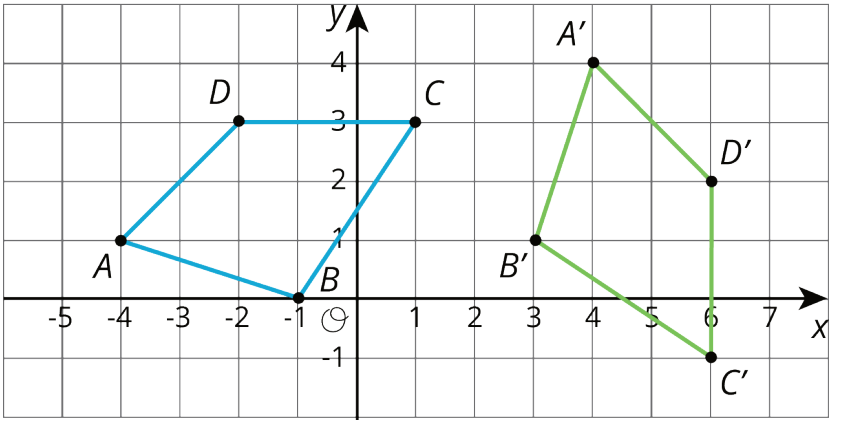
   c. Rotate triangle ABC 270 degrees clockwise around A.

3. Each graph shows two polygons $ABCD$ and $A'B'C'D'$. In each case, describe a sequence of transformations that takes $ABCD$ to $A'B'C'D'$.

a.

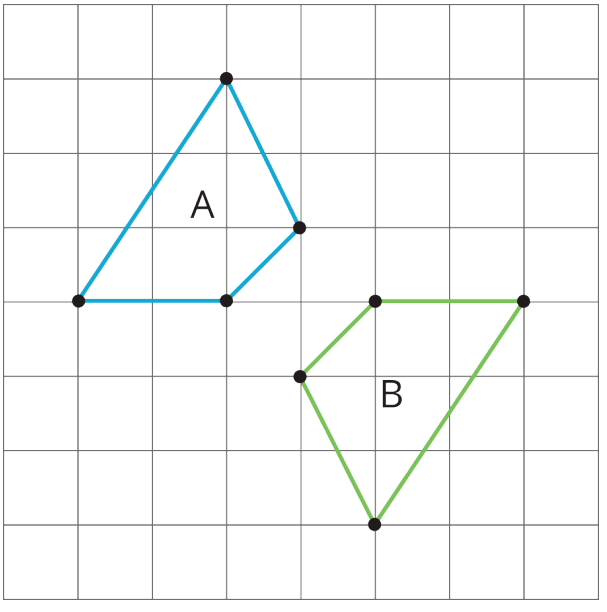


b.



(From Unit 1, Lesson 5.)

4. Lin says that she can map Polygon A to Polygon B using *only* reflections. Do you agree with Lin? Explain your reasoning.



(From Unit 1, Lesson 4.)