1. For the figure shown here,

   \[ \text{a. Rotate segment } CD \text{ 180° around point } D. \]
   \[ \text{b. Rotate segment } CD \text{ 180° around point } E. \]
   \[ \text{c. Rotate segment } CD \text{ 180° around point } M. \]

2. Here is an isosceles right triangle:

   \[ \text{Draw these three rotations of triangle } ABC \text{ together.} \]
   \[ \text{a. Rotate triangle } ABC \text{ 90 degrees clockwise around } A. \]
   \[ \text{b. Rotate triangle } ABC \text{ 180 degrees around } A. \]
   \[ \text{c. Rotate triangle } ABC \text{ 270 degrees clockwise around } A. \]
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.

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