

Name: \_\_\_\_\_

Hour: \_\_\_\_\_

## Basic Transformation Constructions Notes: Rotations

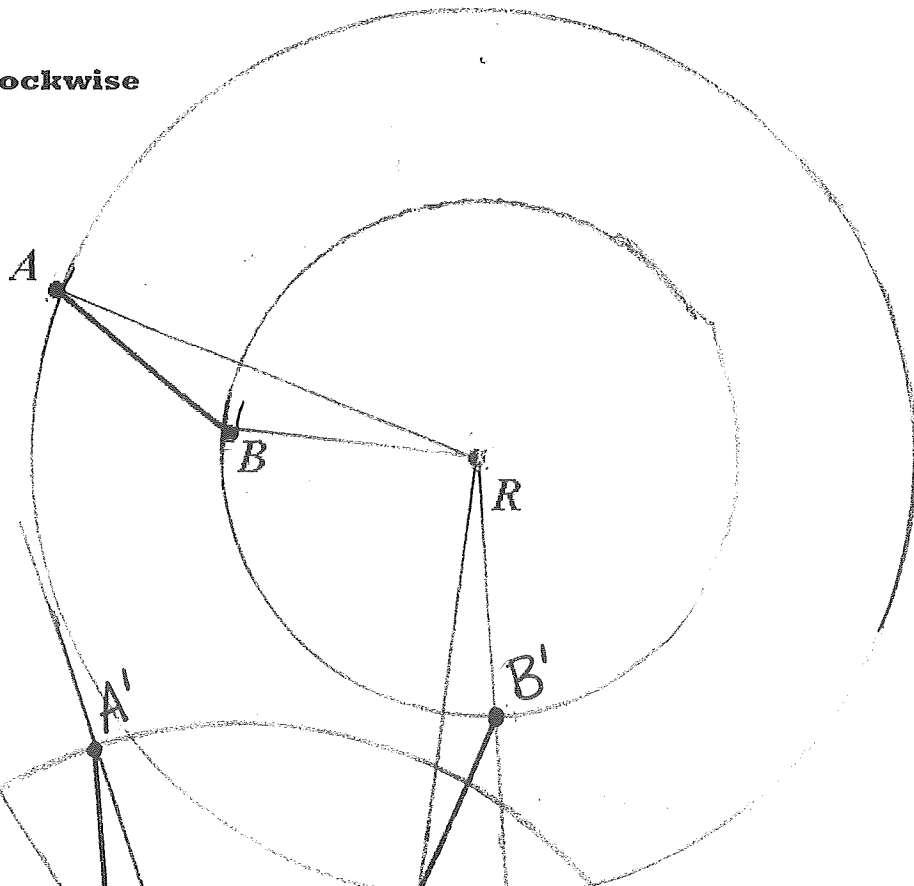
**Rotate the given pre-image the desired rotation around the point of rotation R.**

### 1. Rotate 100° counterclockwise

$$\overline{BR} \cong \overline{B'R}$$

$$\overline{AR} \cong \overline{A'R}$$

$$\angle ARA' \cong \angle BRB'$$



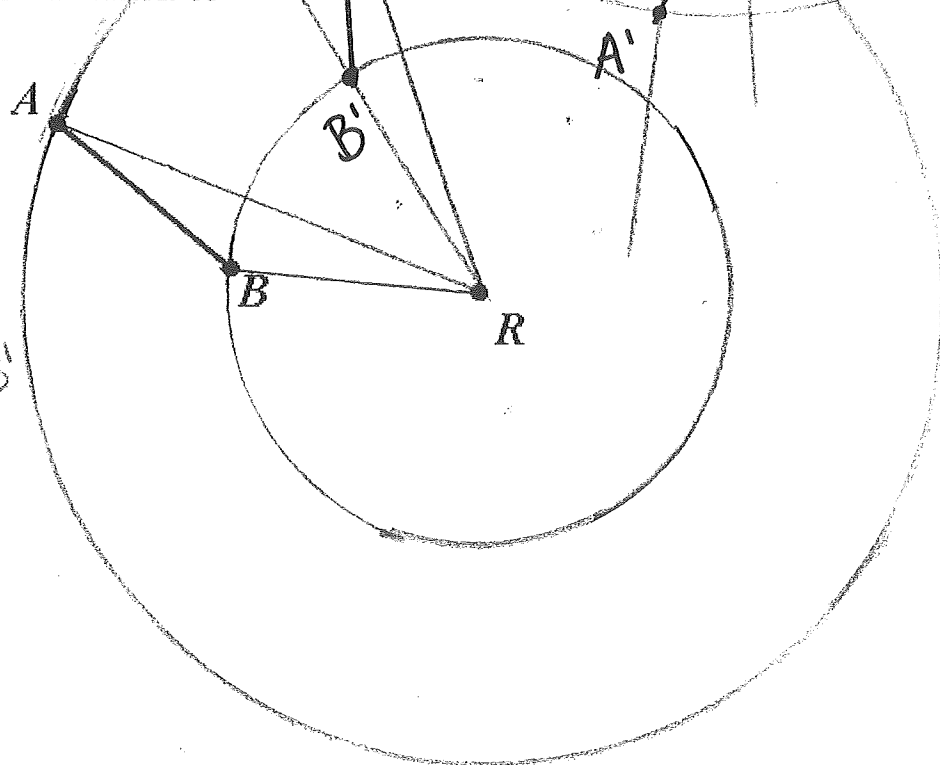
### 2. Rotate 52° clockwise.

$$\overline{BR} \cong \overline{B'R}$$

$$\overline{AB} \cong \overline{A'B'}$$

$$\overline{AR} \cong \overline{A'R}$$

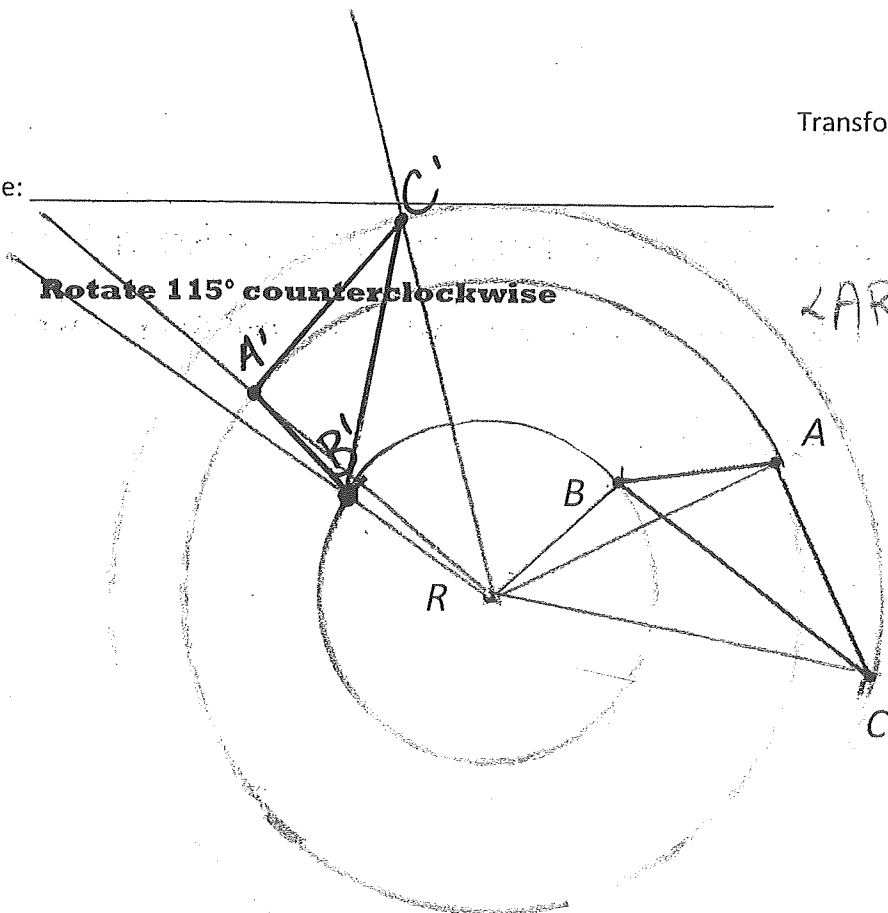
$$\angle ARA' \cong \angle BRB'$$



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3. Rotate 115° counterclockwise



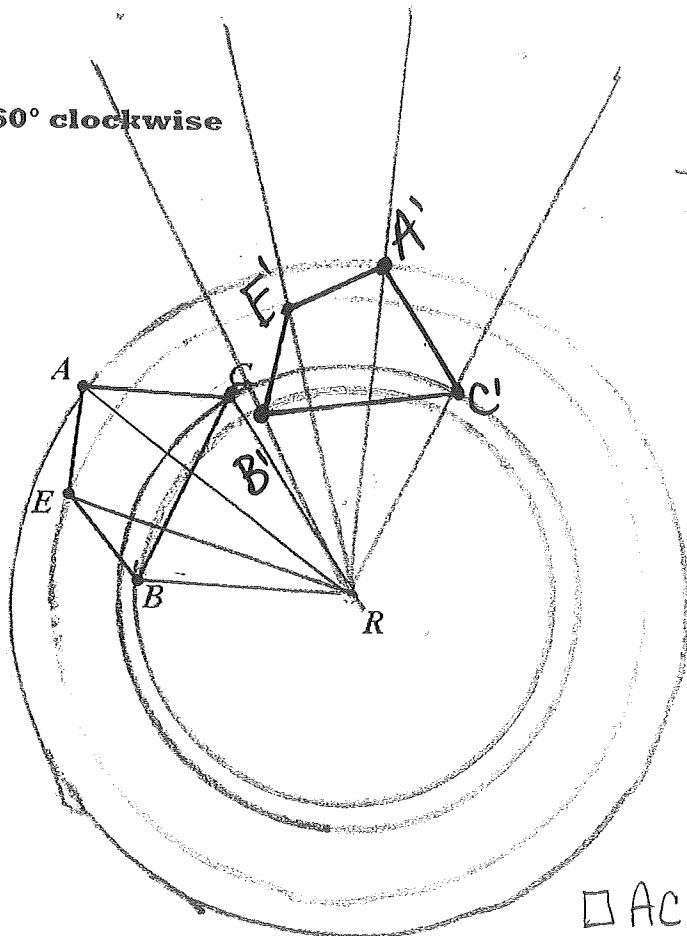
$$\angle ARA' \cong \angle BRB' \cong \angle CRC'$$

$$\overline{AR} \cong \overline{A'R}$$

$$\overline{BR} \cong \overline{B'R}$$

$$\overline{CR} \cong \overline{C'R}$$

4. Rotate 60° clockwise



$$\overline{AR} \cong \overline{A'R}$$

$$\overline{BR} \cong \overline{B'R}$$

$$\overline{CR} \cong \overline{C'R}$$

$$\overline{ER} \cong \overline{E'R}$$

$$\angle ARA' \cong \angle BRB' \cong \angle CRC' \cong \angle ERE'$$

$$\square ACBE \cong \square A'C'B'E'$$