

Name: _____



PRACTICE



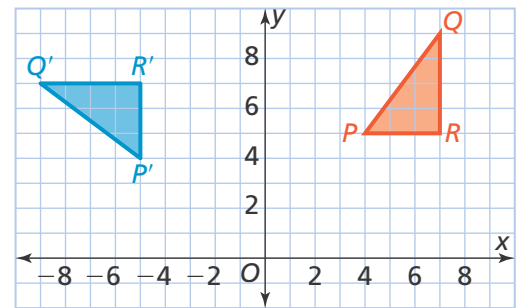
TUTORIAL

6-3 Additional Practice

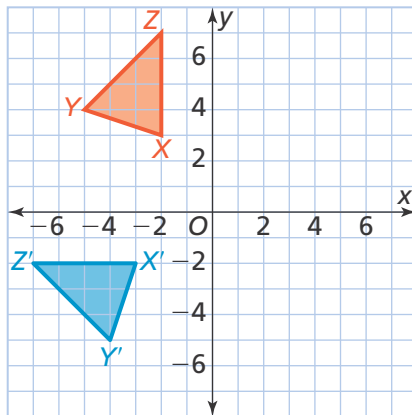
Scan for
Multimedia



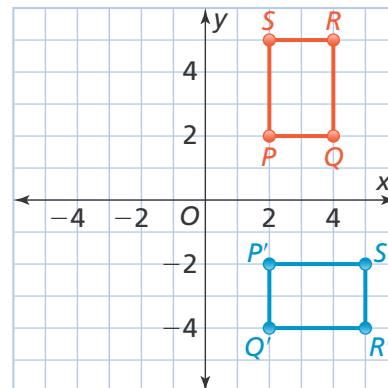
- 1. Leveled Practice** What is the angle of rotation about the origin that maps $\triangle PQR$ to $\triangle P'Q'R'$?



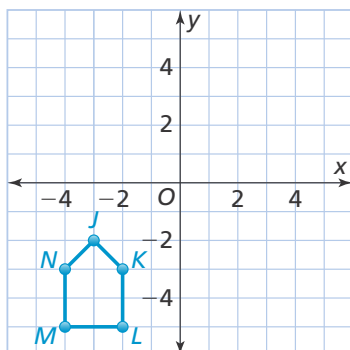
- 2.** Is $\triangle X'Y'Z'$ a rotation of $\triangle XYZ$? Explain.



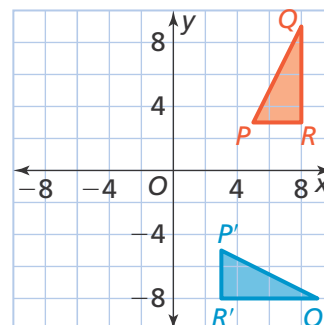
- 3.** What is the angle of rotation about the origin that maps quadrilateral PQRS to quadrilateral P'Q'R'S'?



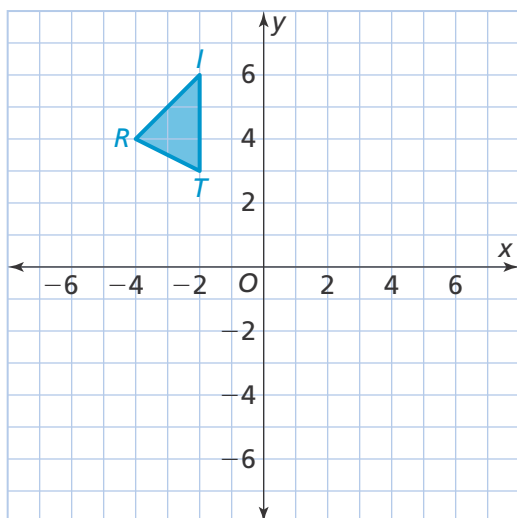
- 4.** Pentagon JKLMN is rotated 180° about the origin. Graph and label the coordinates of pentagon J'K'L'M'N'.



- 5.** Is $\triangle P'Q'R'$ a 90° rotation of $\triangle PQR$ about the origin? Explain.



6. $\triangle TRI$ is rotated 270° about the origin. Graph and label the coordinates of $\triangle T'R'I'$.



7. **Higher Order Thinking** Point N has coordinates $(3, 4)$. On a quiz yesterday, Ari incorrectly claimed that if you rotate N 180° about the origin, the coordinates of N' are $(-4, 3)$. What are the correct coordinates for N' ? What was Ari's likely error?

© Assessment Practice

8. Rectangle $W'X'Y'Z'$ is an image of rectangle $WXYZ$ after a rotation.

PART A

What is the angle of rotation about the origin that maps quadrilateral $WXYZ$ to quadrilateral $W'X'Y'Z'$?

- Ⓐ 90°
- Ⓑ 180°
- Ⓒ 270°
- Ⓓ 360°

PART B

What changes when mapping the preimage to its image?

- Ⓐ size
- Ⓑ shape
- Ⓒ position
- Ⓓ orientation

