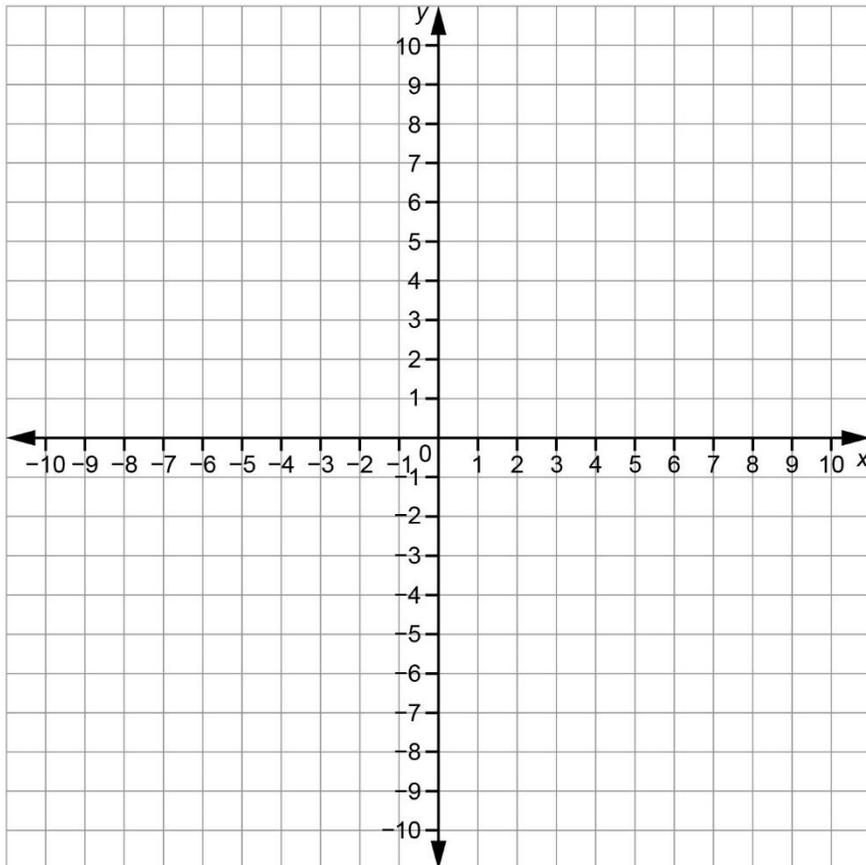


Geometry
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Rotating a Shape about an External Point

Record the coordinates for two vertices of each shape and their images in the table below.

1. Draw Shape 1 using a maximum of 6 points.
2. Choose a point P outside the shape.
 Rotate Shape 1 90° counterclockwise about P.
 Label the rotation image as Shape 2.
3. Repeat Step 2 for a counterclockwise rotation of 180° about P.
 Label the rotation image of Shape 1 as Shape 3.
4. Repeat Step 3 for a counterclockwise rotation of 270° about P.
 Label the rotation image of Shape 1 as Shape 4.
5. Describe how each image is related to the original shape.



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Rotating a Shape about an External Point (cont'd)

Rotation Image Shape 2		
Description	Coordinates of Vertices of Shape 1	Coordinates of Vertices of Image Shape 2
Rotation Image Shape 3		
Description	Coordinates of Vertices of Shape 1	Coordinates of Vertices of Image Shape 3
Rotation Image Shape 4		
Description	Coordinates of Vertices of Shape 1	Coordinates of Vertices of Image Shape 4