

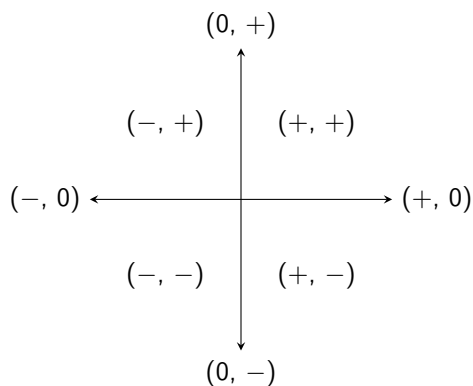
Rotations

Today I Can

1. Find images of rotated pre-images.

When a figure is rotated 90° , 180° , or 270° about the origin O in a coordinate plane, you can use the following rules:

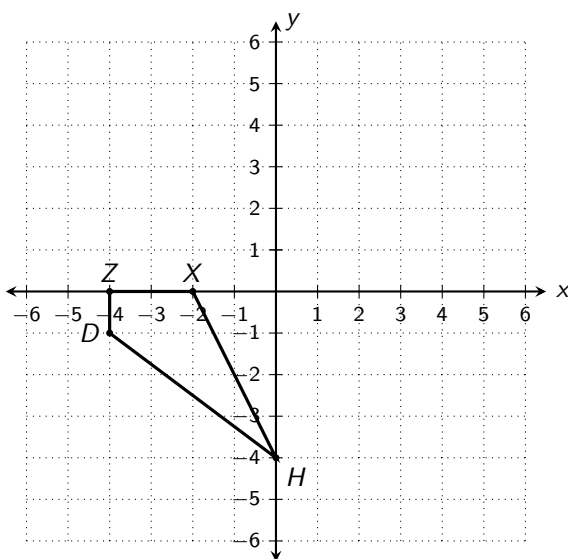
1. Every 90° rotated switches the x - and y -coordinates.
2. Every 90° rotated is a new quadrant the point is in.



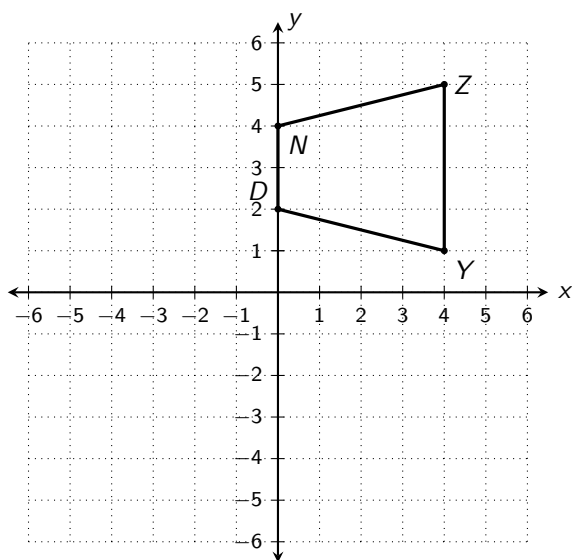
*** Unless otherwise stated, rotations are performed counterclockwise. ***

Example 1. Rotate each of the following. List the coordinates of the rotated image.

- (a) Rotate 90° about the origin.



(b) Rotate 180° about the origin.



(c) Rotate 270° about the origin.

