

Rotations Practice

Write our class rule for rotating a figure that following number of degrees.

90° CC

180°

270° CC

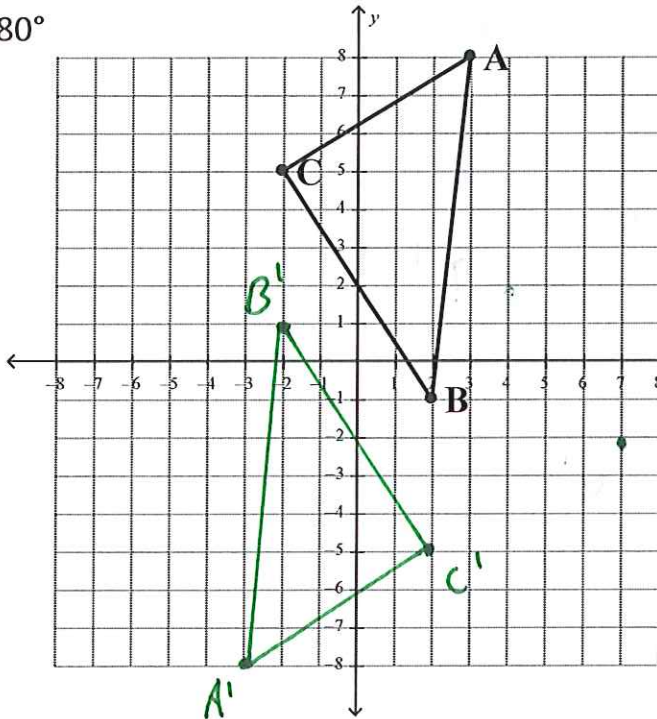
$$(x, y) \rightarrow (-y, x)$$

$$(x, y) \rightarrow (-x, -y)$$

$$(x, y) \rightarrow (y, -x)$$

Use our class rule for rotating figures. Rotate the figures the given number of degrees and record the pre-image AND image coordinates.

1. 180°

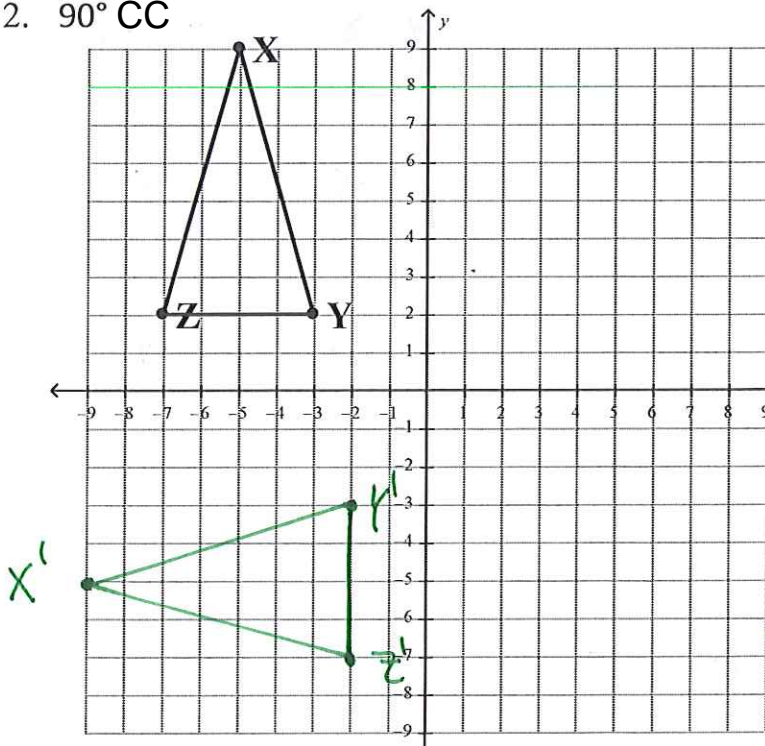


$$A(3, 8) \quad A'(-3, -8)$$

$$B(2, -1) \quad B'(-2, 1)$$

$$C(-2, 5) \quad C'(2, -5)$$

2. 90° CC

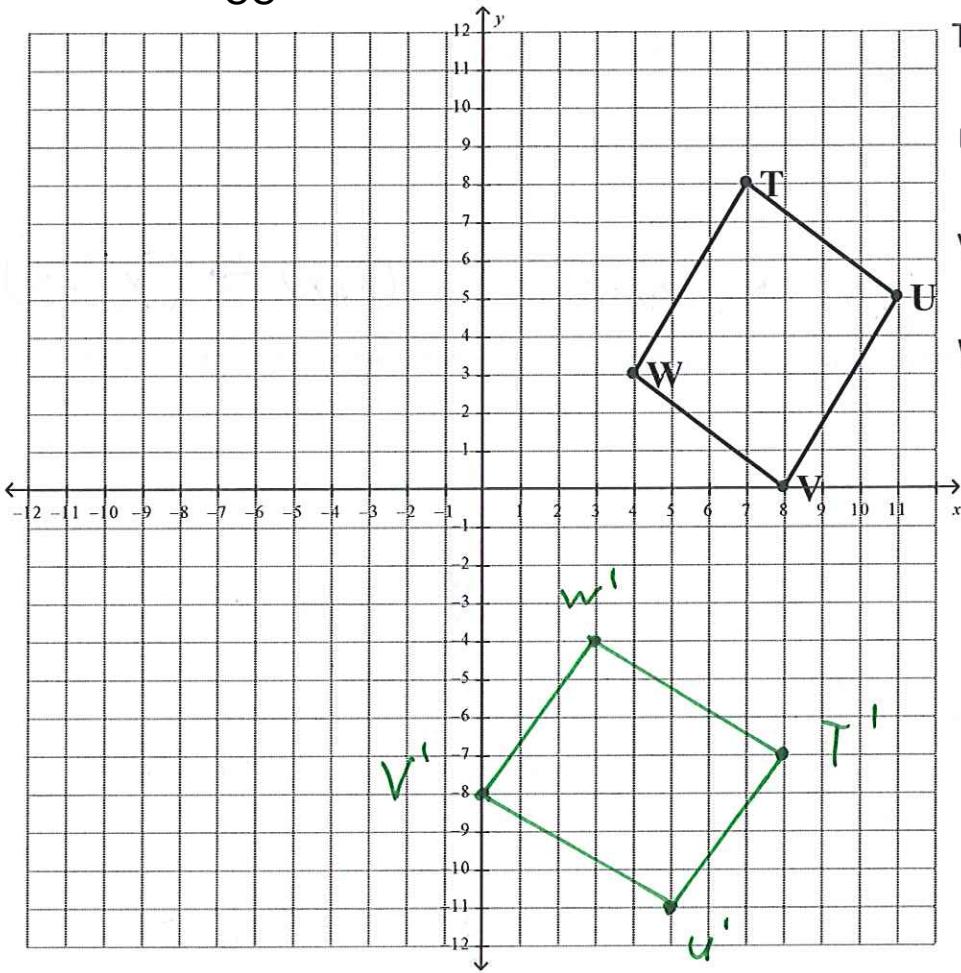


$$X(-5, 9) \quad X'(-9, -5)$$

$$Y(-3, 2) \quad Y'(-2, -3)$$

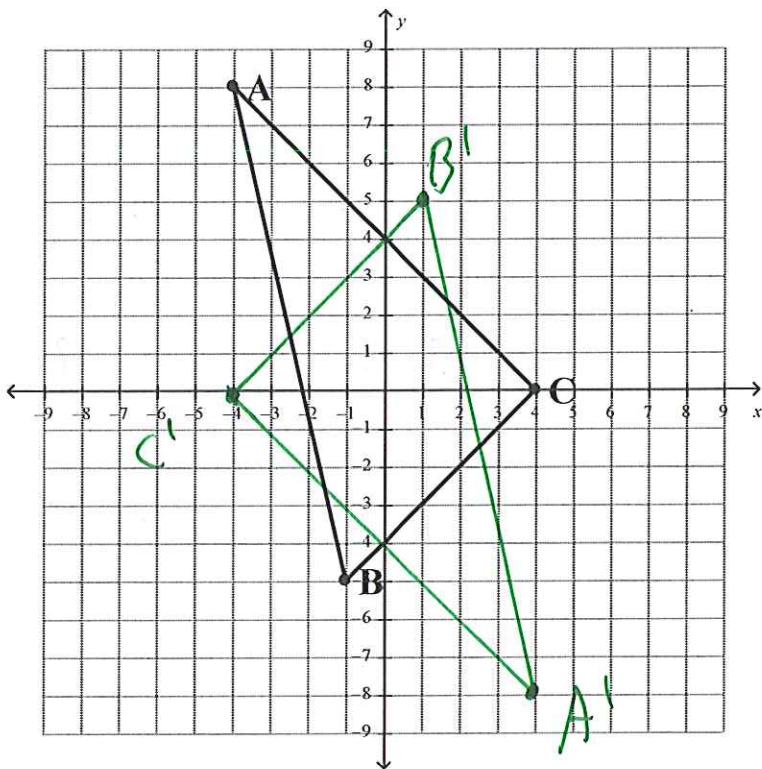
$$Z(-7, 2) \quad Z'(-2, -7)$$

3. 270° CC



$T(7, 8)$ $T'(8, -7)$
 $U(11, 5)$ $U'(5, -11)$
 $V(8, 0)$ $V'(0, -8)$
 $W(4, 3)$ $W'(3, -4)$

4. 180°



$A(-4, 8)$ $A'(4, -8)$
 $B(-1, -5)$ $B'(1, 5)$
 $C(4, 0)$ $C'(-4, 0)$