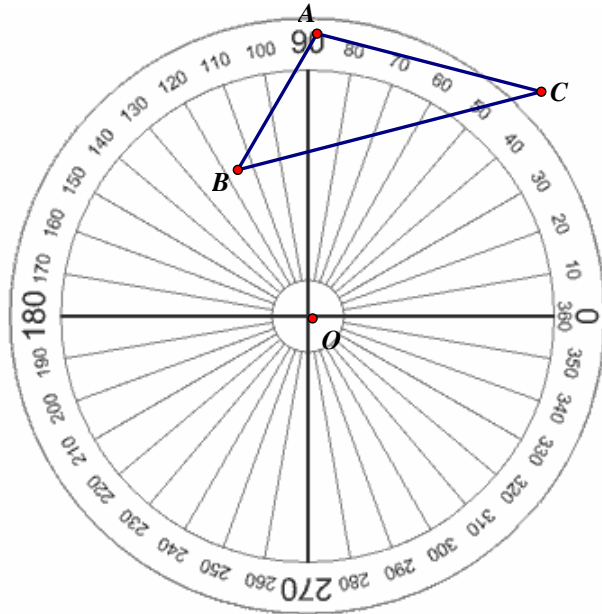
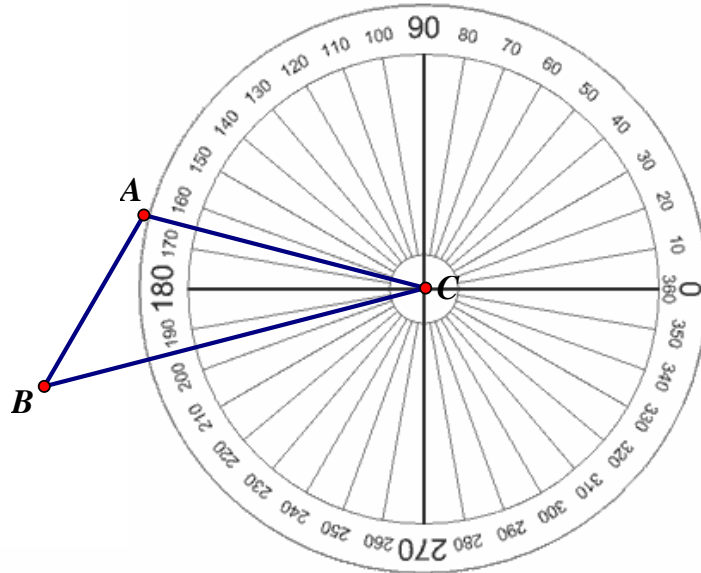


Rotations Explorations
Geometry 9-3

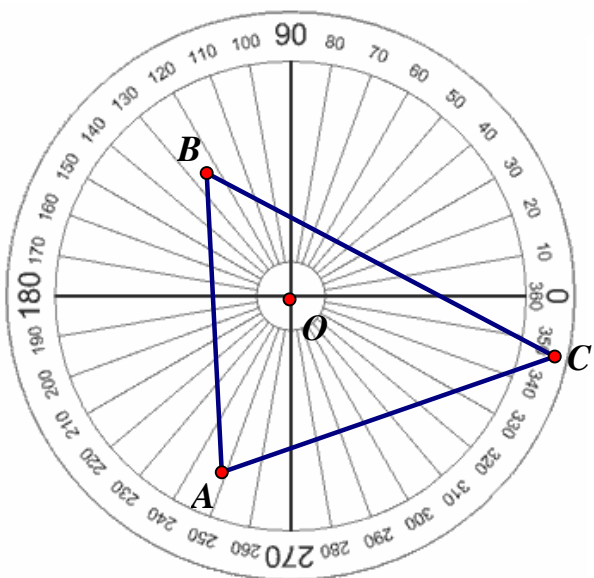
A. Rotate 90° around point O.



B. Rotate 260° around point C.



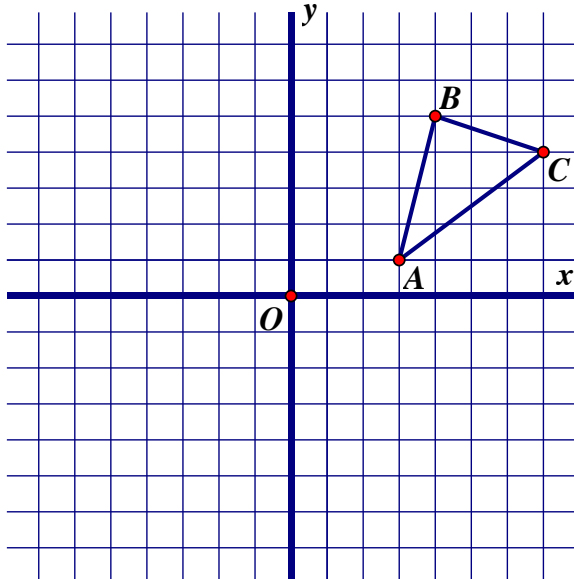
C. Rotate 140° around Point O



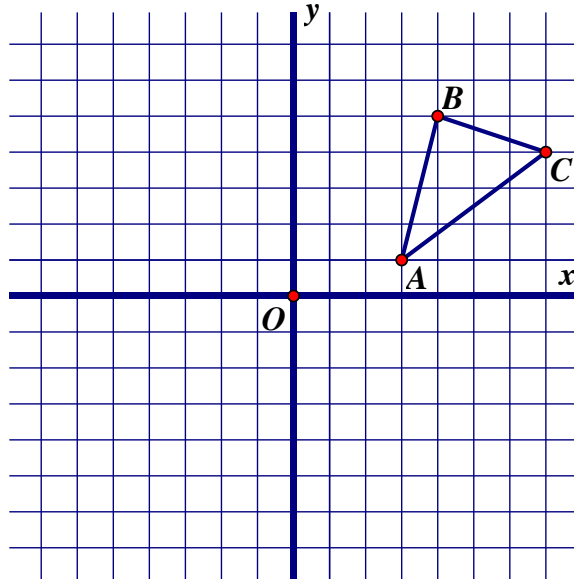
Day 2: Rotations in the Coordinate Plane

For each graph below, rotate $\triangle ABC$ around the origin by the given angle of rotation. Label the new triangle $\triangle A'B'C'$ for each graph. List the coordinates of A' , B' and C' for each rotation in the table in the lower right corner.

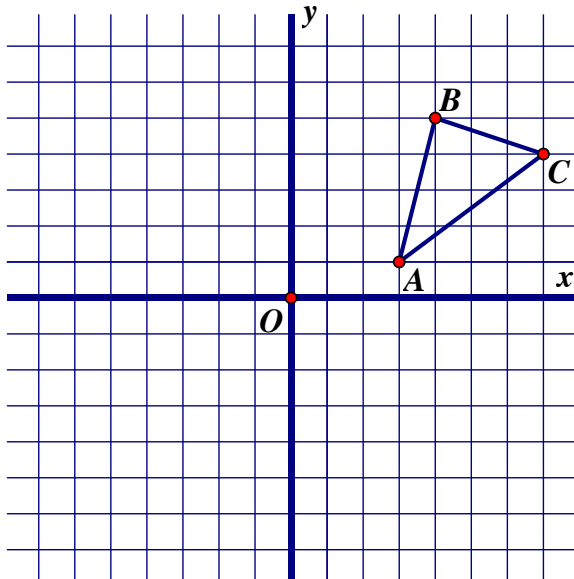
1. 90°



2. 180°



3. 270°



Coordinates of $\triangle A'B'C'$:

	A'	B'	C'
$\triangle ABC$	A (3, 1)	B (4, 5)	C (7, 4)
$\triangle A'B'C'$ after 90°	A' (,)	B' (,)	C' (,)
$\triangle A'B'C'$ after 180°	A' (,)	B' (,)	C' (,)
$\triangle A'B'C'$ after 270°	A' (,)	B' (,)	C' (,)