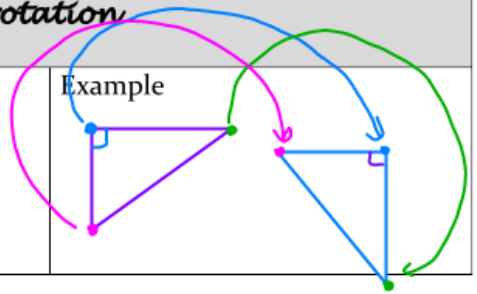
Lesson 5-6

rotation	
Definition "twist"	Example 

center of rotation	
Definition	Example origin (0,0)

Rotations Around the Origin	
Type	Rule
180°	Multiply both coordinates by -1
90° clockwise	Multiply each x by -1; then switch x and y
90° counter-clockwise	Multiply each y by -1; then switch x and y

Example 3: Graphing Rotations on the Coordinate Plane

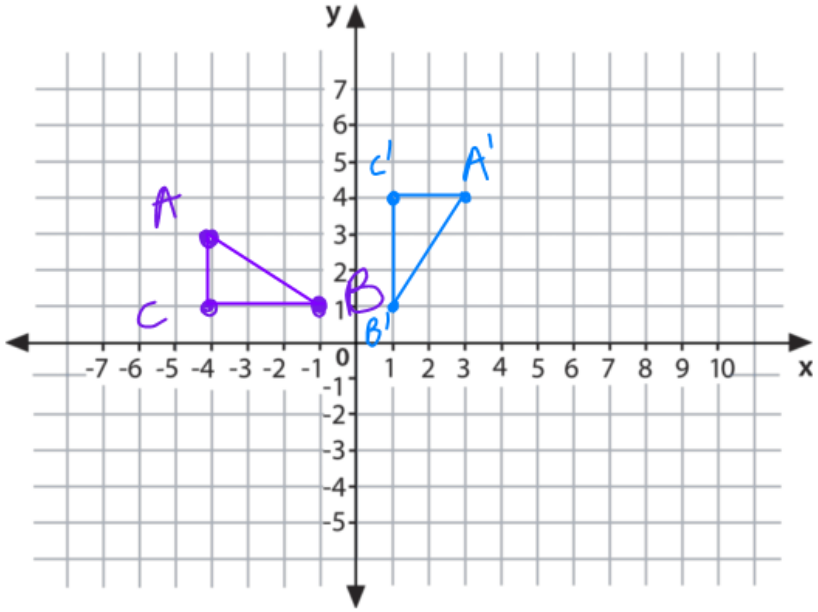
Graph triangle ABC. Then rotate it 90 degrees clockwise around the origin (multiply the x by -1 then switch x and y).

I Do

A(-4, 3), B(-1,1), C(-4,1)

① (4,3) (1,1) (4,1)

② A'(3,4) B'(1,1) C'(1,4)



Example 3: Graphing Translations on the Coordinate Plane

Graph triangle ABC. Then rotate the triangle 90 degrees counterclockwise about the origin.

You Do

A(1, -1), B(1, -3), C(4, -3)

-1 -1 -1

(1,1) (1,3) (4,3)

A' (1,1) B' (3,1) C' (3,4)