Name: KEY Date:

Transformations: Rotations on a Coordinate Plane

Independent Practice

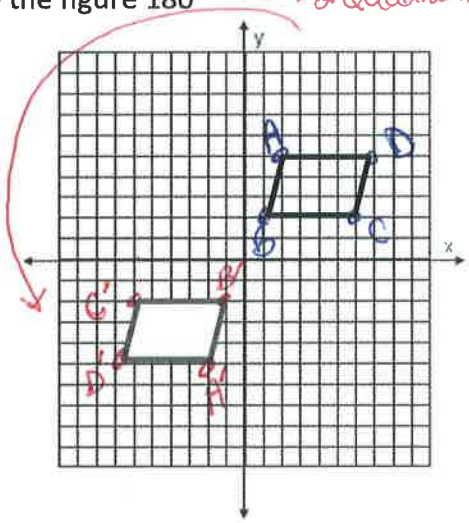
Directions: Tell where each point would end up if it rotated the given distance.

	Given Point	90° rotation	180° rotation	270° rotation
ex	(1, 7)	(-7,1)	(-1, -7)	(7, -1)
1.	(2, 9)	(-9, 2)	(-2, -9)	(9, -2)
2.	(3, -5)	(5, 3)	(-3, 5)	(-5, -3)
3.	(-8, 2)	(-2, -8)	(8, -2)	(2, 8)
4.	(-5, -8)	(8, -5)	(5, 8)	(-8, 5)
5.	(4, 4)	(-4, 4)	(-4, -4)	(4, -4)
6.	(3, 0)	(0, 3)	(-3, 0)	(0, -3)

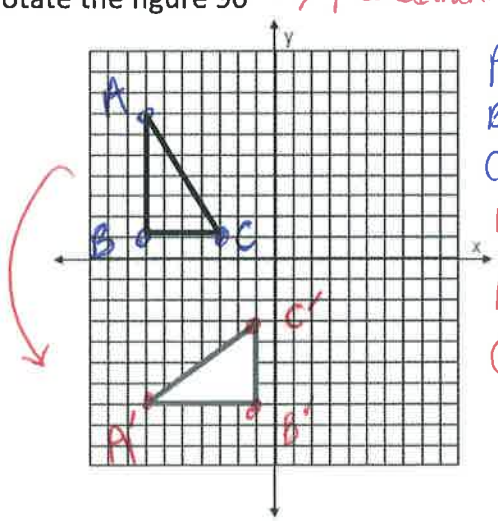
Directions: Rotate each figure the given distance. Sketch the new shape and label the points.

Rotate the figure 180° → 2 Quadrants over

A(2,5)
B(1,2)
C(6,2)
D(7,5)
A'(-2,-5)
B'(-1,-2)
C'(-6,-2)
D'(-7,-5)



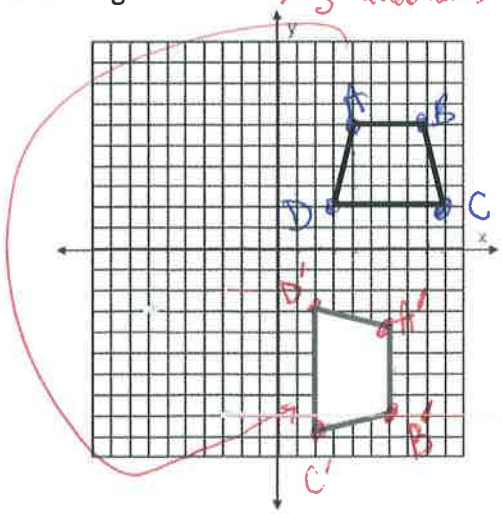
Rotate the figure 90° → 1 Quadrant over



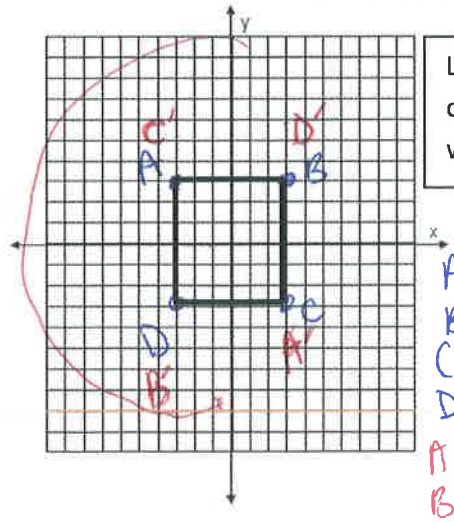
A(-7,7)
B(-7,1)
C(-7,-7)
A'(-7,-7)
B'(-1,-7)
C'(-1,-3)

Rotate the figure 270° → 3 Quadrants over

A(4,6)
B(8,6)
C(9,2)
D(3,2)
A'(6,-4)
B'(6,-8)
C'(2,-9)
D'(2,-3)



Rotate the figure 180° → 2 Quadrants over



Looks the same only the corners would move.

A(-3,3)
B(+3,+3)
C(3,-3)
D(-3,-3)
A'(3,-3)
B'(-3,-3)
C'(-3,3)
D'(3,3)