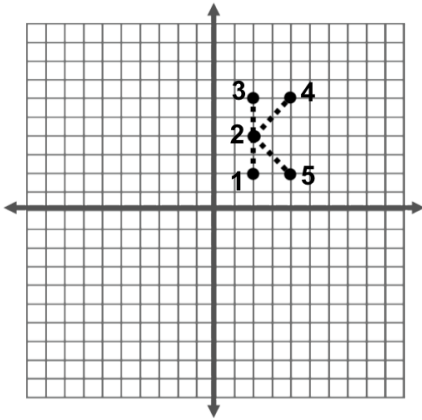


- 1) Directions: Rotate the image **clockwise** with the given angle of rotation about the origin.
Graph each image separately.



Coordinate	1 (2,2)	2 (2, 4)	3 (2, 6)	4 (4, 6)	5 (4, 2)
90°					
180°					
270°					

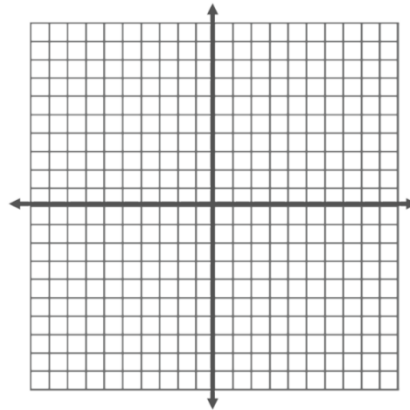
- 2) Directions: Determine the coordinates of the indicated vertices of the triangle rotated 180° counterclockwise about the point (1, 0). Graph the image on the coordinate plane.

A(-8,-10), B (-4,7) , C (-3, 3)

A': _____

B': _____

C': _____

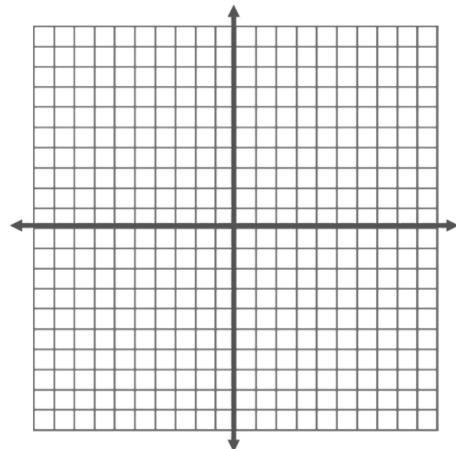


- 3) \overline{MK} is rotated 90° clockwise about the point (0, -2). The coordinates are $M(1, 3)$ and $K(4, -6)$.

Graph the image on the coordinate plane. What are the locations of M' and K'

M' : _____

K' : _____

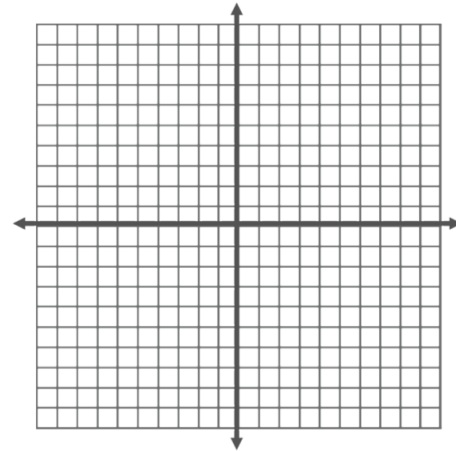


4) The vertices of ΔABC are $A(3,5)$, $B(5,5)$, $C(7,0)$. Graph the coordinates of $\Delta A'B'C'$ and $\Delta A''B''C''$

Reflection over the line $y = x$

Rotation 90° counter clockwise about the origin

A' A''
 B' B''
 C' C''

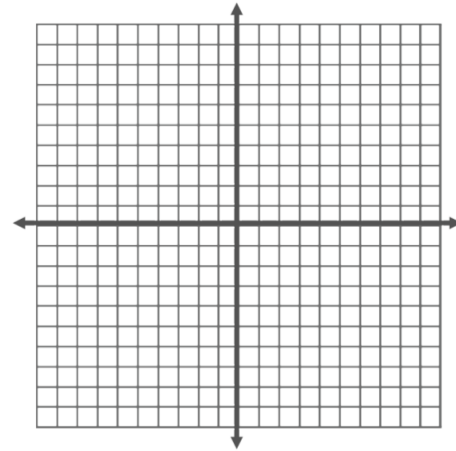


5) The vertices of ΔABC are $A(3,5)$, $B(5,5)$, $C(7,0)$. Graph the coordinates of $\Delta A'B'C'$ and $\Delta A''B''C''$

Rotation 90° clockwise about the point $(1, -1)$

Reflection over the line $y = -x$

A' A''
 B' B''
 C' C''



Answer Key

Geometry 2.3 Day 2

1)

Coordinate	1 (2,2)	2 (2, 4)	3 (2, 6)	4 (4, 6)	5 (4, 2)
90°	(2, -2)	(4, -2)	(6, -2)	(6, -4)	(2, -4)
180°	(-2, -2)	(-2, -4)	(-2, -6)	(-4, -6)	(-4, -2)
270°	(-2, 2)	(-4, 2)	(-6, 2)	(-6, 4)	(-2, 4)

2) A' : (10, 10) B' : (6, -7) C' : (5, -3)

3) M' : (5, -3) K' : (-4, -6)

4) A' (5, 3) A'' (-3, 5) 5) A' (7, -3) A'' (3, -7)

B' (5, 5) B'' (-5, 5) B' (7, -5) B'' (5, -7)

C' (0, 7) C'' (-7, 0) C' (2, -7) C'' (7, -2)