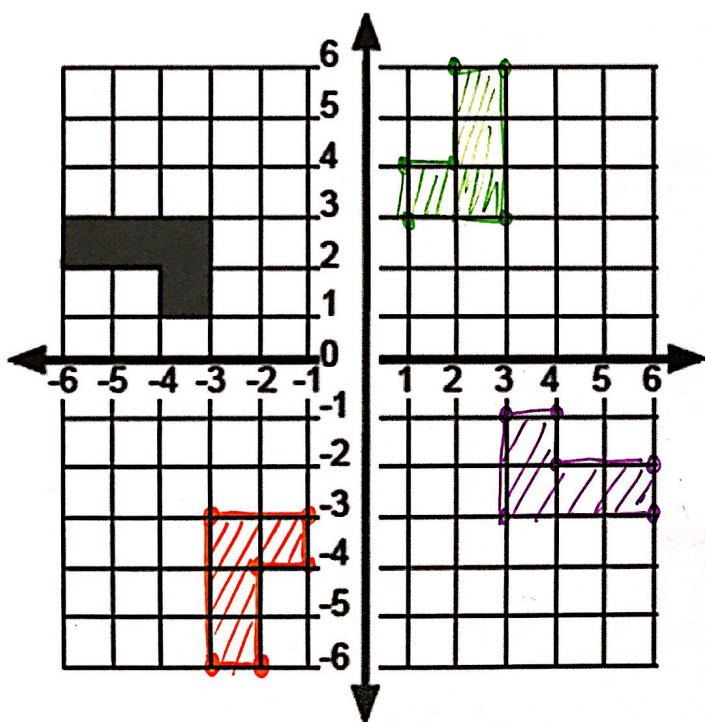


### Rotations



Rotation Clockwise  $90^\circ = \text{CCW } 270^\circ$

Pre-Image Beginning image	Image Image after rotation	Rule How did the coordinates change?
A(-6, 2)	A'( 2, 6 )	$(x, y) \rightarrow (y, -x)$
B(-6, 3)	B'( 3, 6 )	
C(-3, 3)	C'( 3, 3 )	
D(-3, 1)	D'( 1, 3 )	
E(-4, 1)	E'( 1, 4 )	
F(-4, 2)	F'( 2, 4 )	

Rotation Clockwise  $180^\circ$

Pre-Image Beginning image	Image Image after rotation	Rule How did the coordinates change?
A(-6, 2)	A'( 6, -2 )	$(x, y) \rightarrow (-x, -y)$
B(-6, 3)	B'( 6, -3 )	
C(-3, 3)	C'( 3, -3 )	
D(-3, 1)	D'( 3, -1 )	
E(-4, 1)	E'( 4, -1 )	
F(-4, 2)	F'( 4, -2 )	

Rotation Clockwise  $270^\circ = \text{CCW } 90^\circ$

Pre-image Beginning image	Image Image after rotation	Rule How did the coordinates change?
A(-6, 2)	A'( -2, -6 )	$(x, y) \rightarrow (-y, x)$
B(-6, 3)	B'( -3, -6 )	
C(-3, 3)	C'( -3, -3 )	
D(-3, 1)	D'( -1, -3 )	
E(-4, 1)	E'( -1, -4 )	
F(-4, 2)	F'( -2, -4 )	