

**March 12, 2012** MTH

**Is there anything due today?**

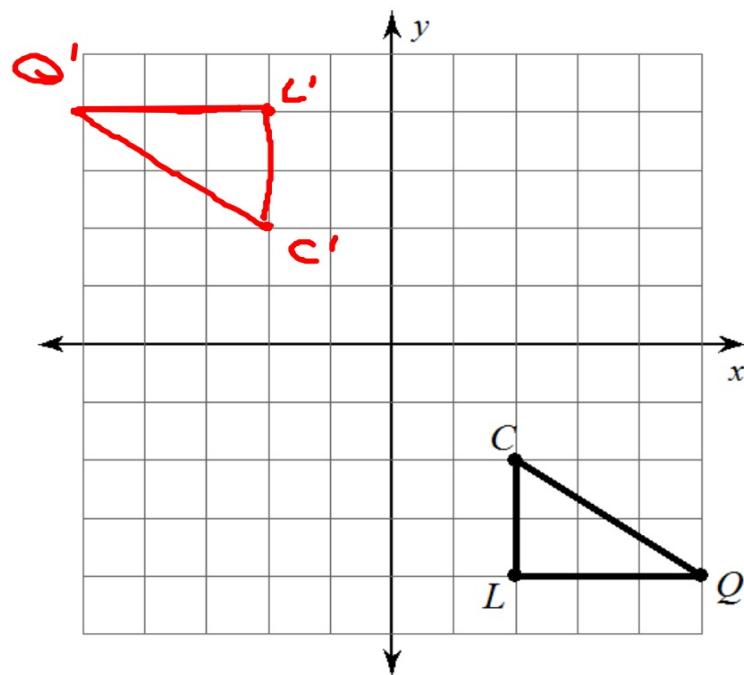


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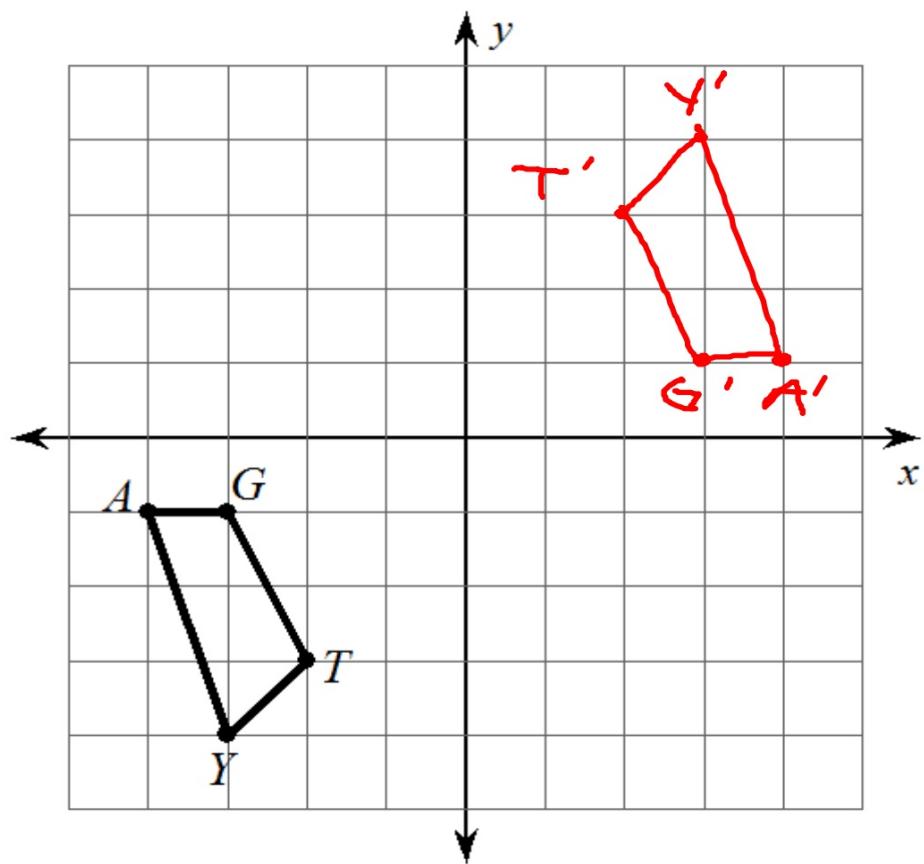
### 3/12 - Rotations using Coordinates

Graph the image, on the mini-whiteboards, of the figure using the transformation given.

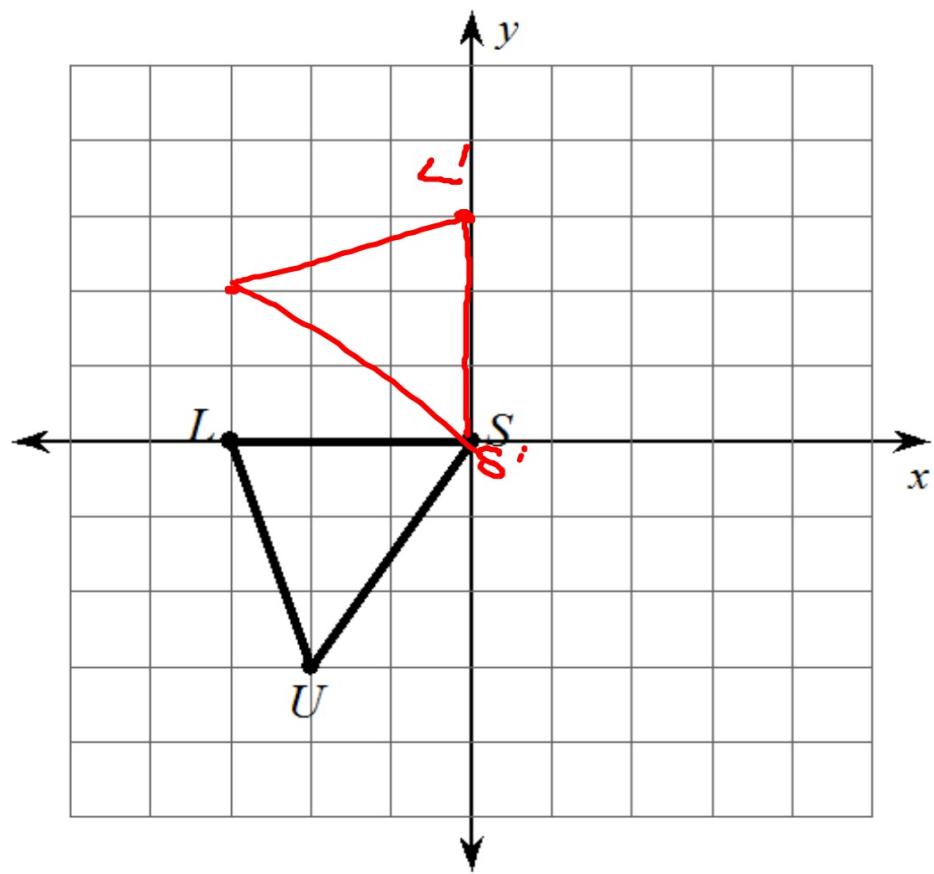
rotation  $180^\circ$  about the origin



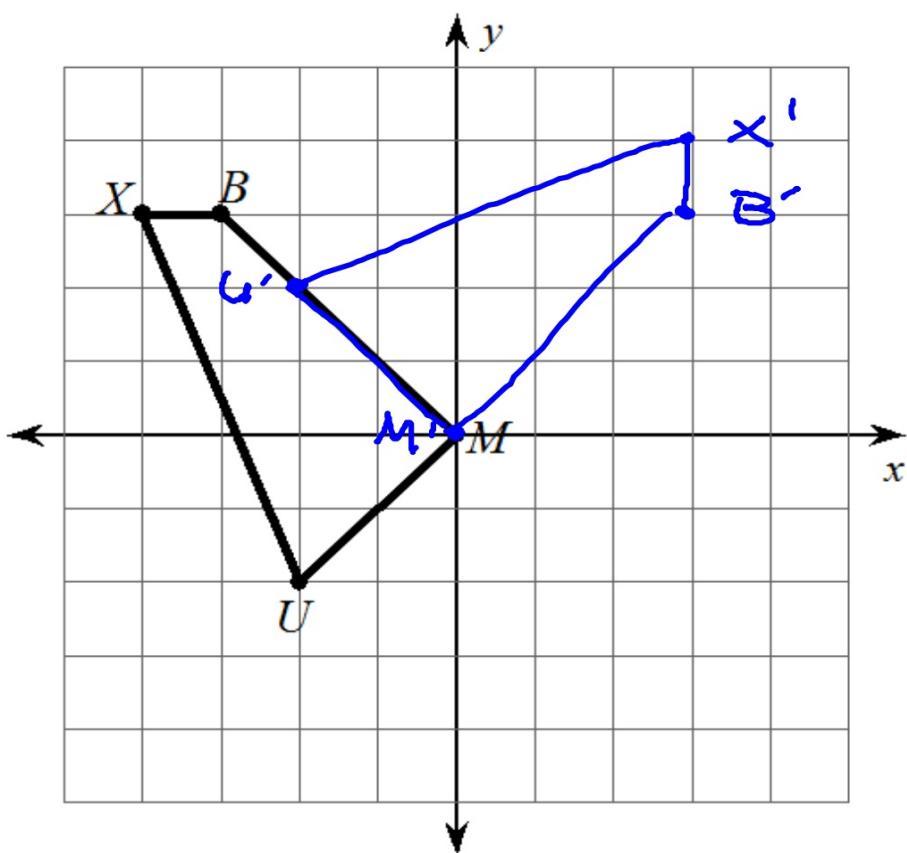
rotation  $180^\circ$  about the origin



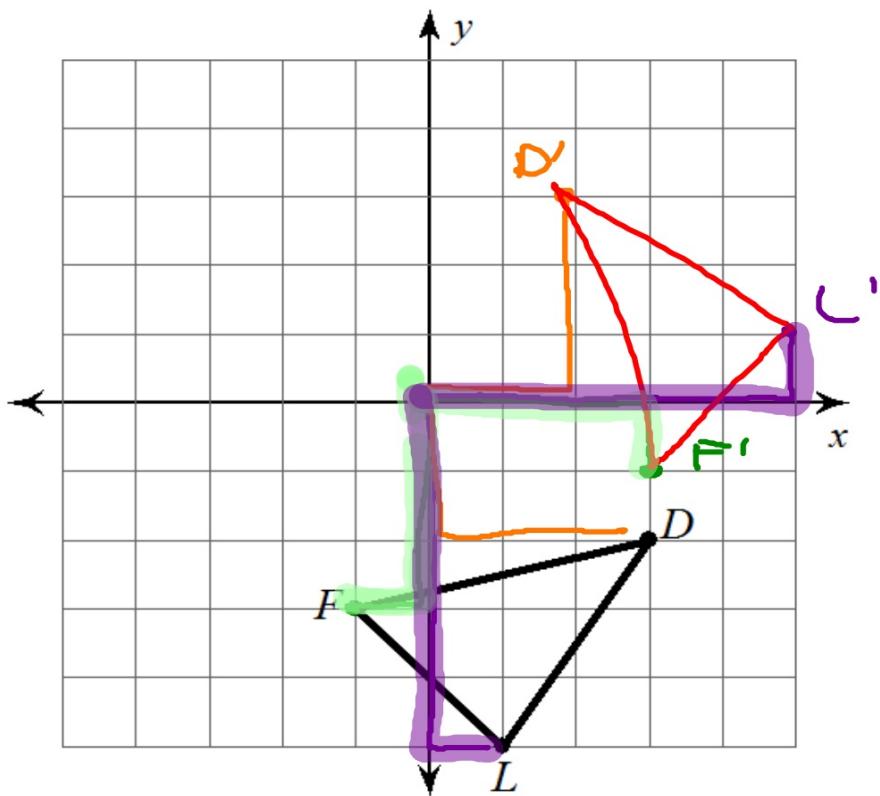
rotation  $90^\circ$  clockwise about the orig



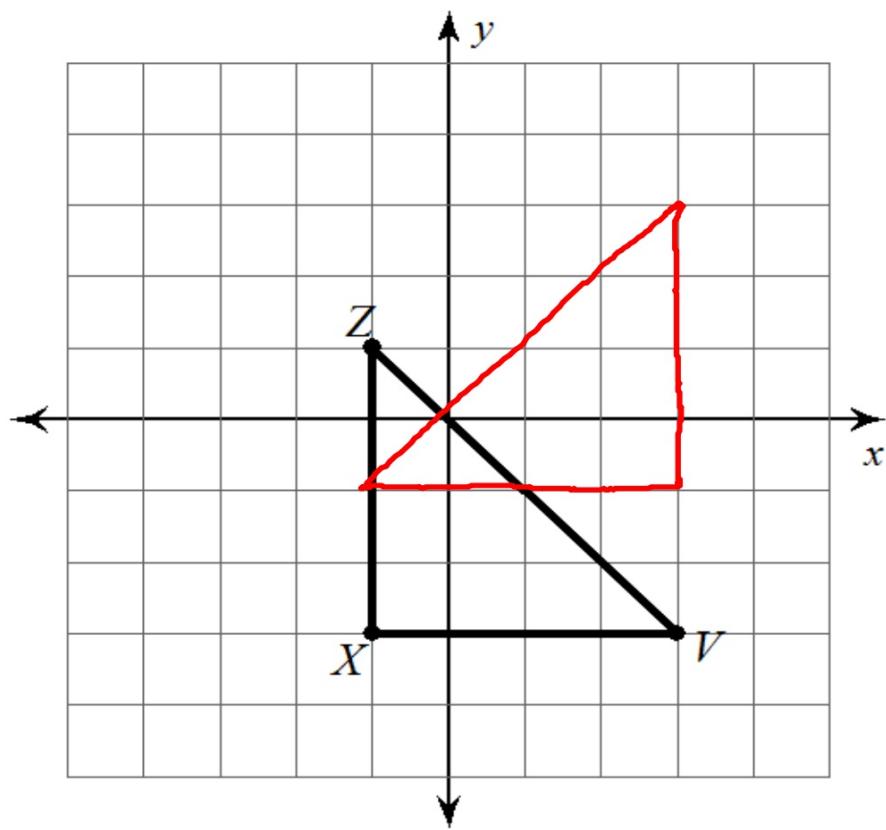
rotation  $90^\circ$  clockwise about the orig



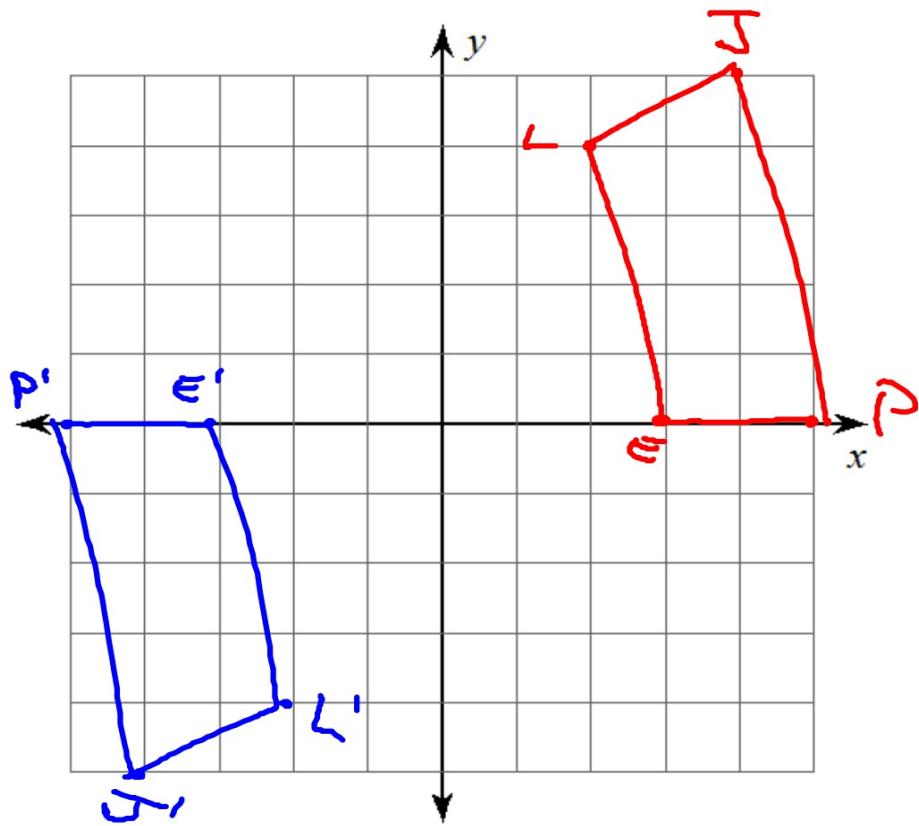
rotation  $90^\circ$  counterclockwise about the origin



rotation  $90^\circ$  counterclockwise about the origin

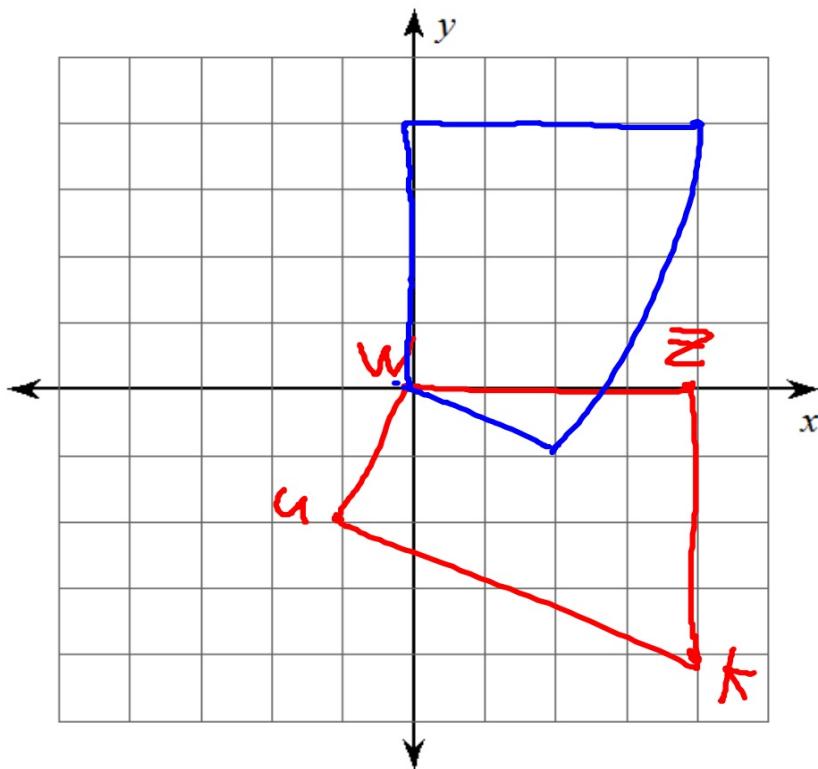


rotation 180° about the origin  
 $E(3, 0)$ ,  $L(2, 4)$ ,  $J(4, 5)$ ,  $P(5, 0)$

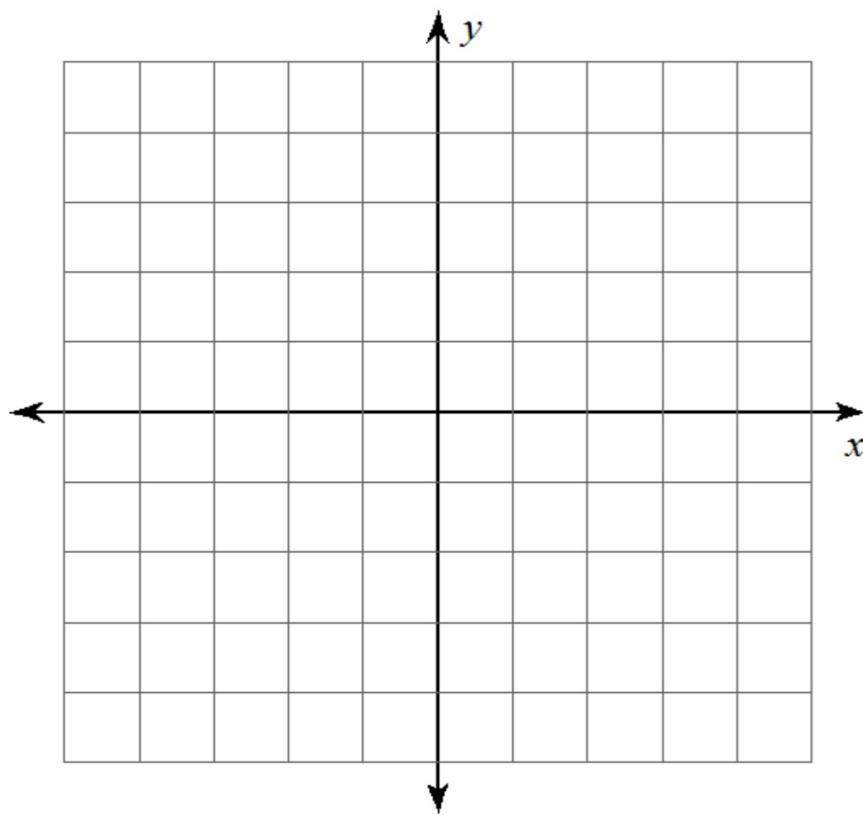


rotation  $90^\circ$  counterclockwise about the origin

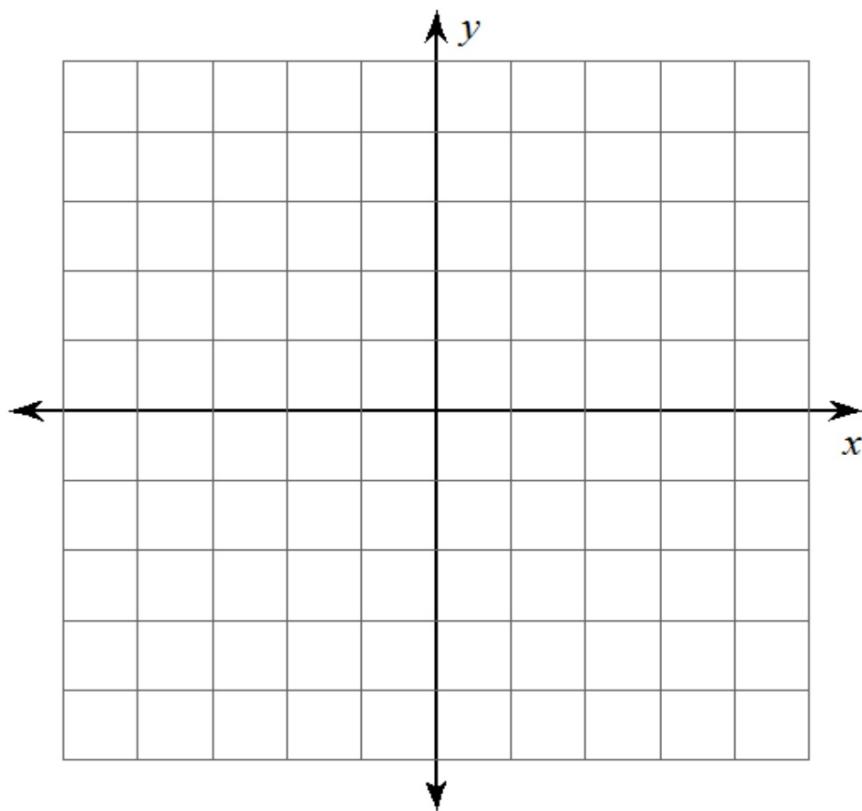
$$U(-1, -2), W(0, 0), Z(4, 0), K(4, -4)$$



rotation  $90^\circ$  clockwise about the origin  
 $S(2, -2)$ ,  $U(3, 0)$ ,  $W(5, -5)$

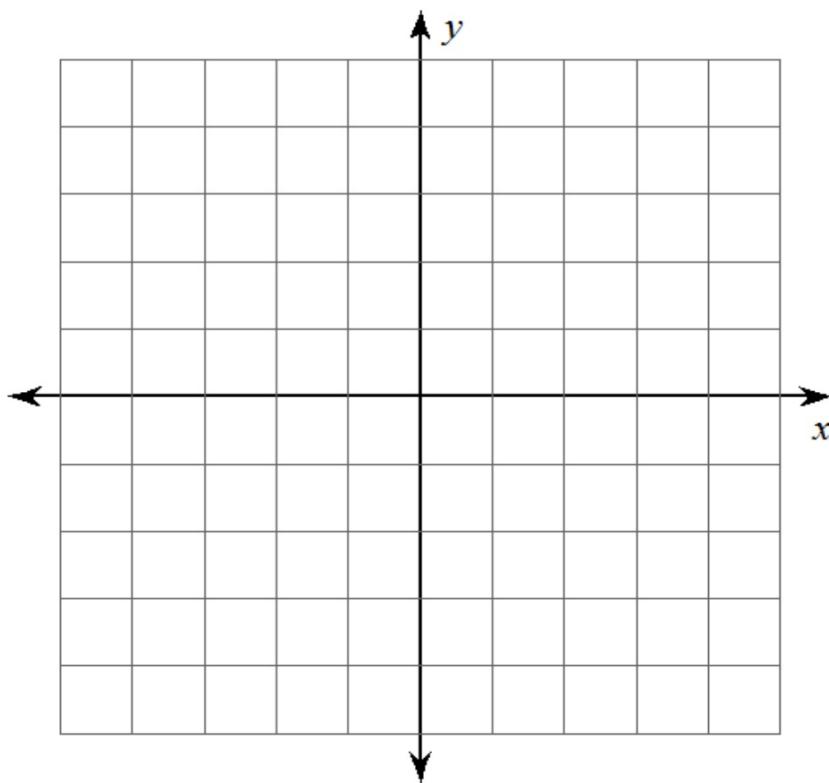


rotation  $90^\circ$  clockwise about the origin  
 $D(0, -2)$ ,  $I(-2, 3)$ ,  $C(3, 4)$ ,  $Y(3, -1)$

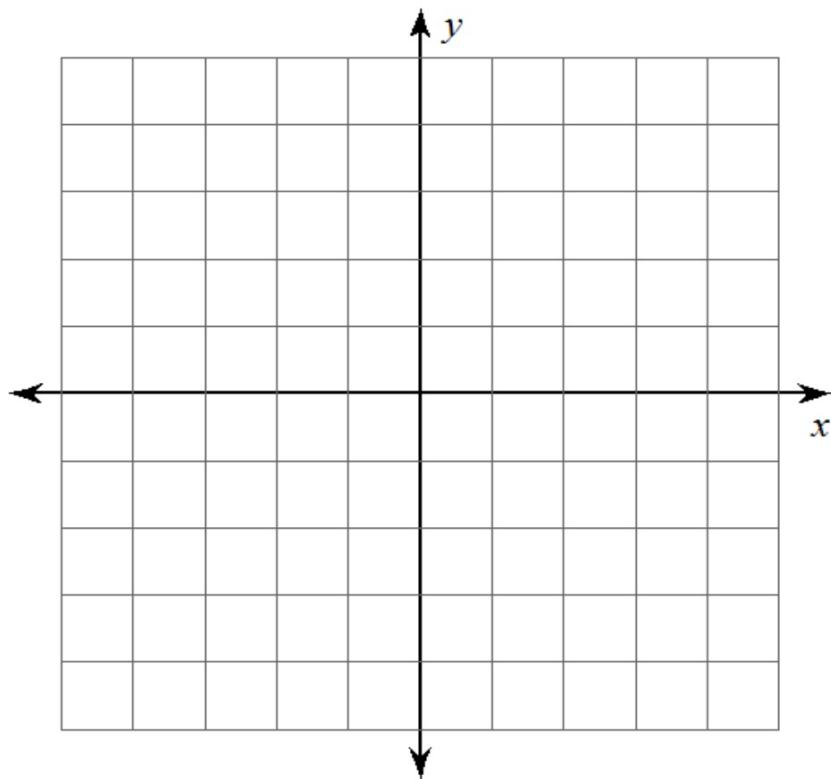


rotation  $90^\circ$  counterclockwise about the origin

$$E(2, -4), D(2, 1), C(3, 1), R(4, -1)$$

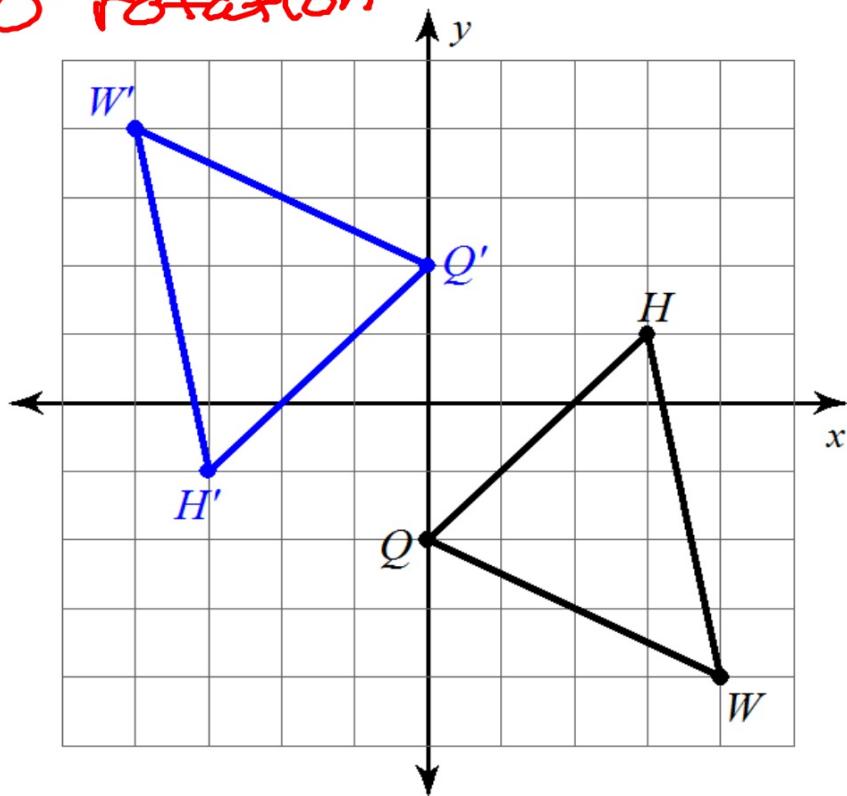


rotation  $90^\circ$  counterclockwise about the origin  
 $F(-3, 2)$ ,  $Y(0, 4)$ ,  $Q(1, 0)$

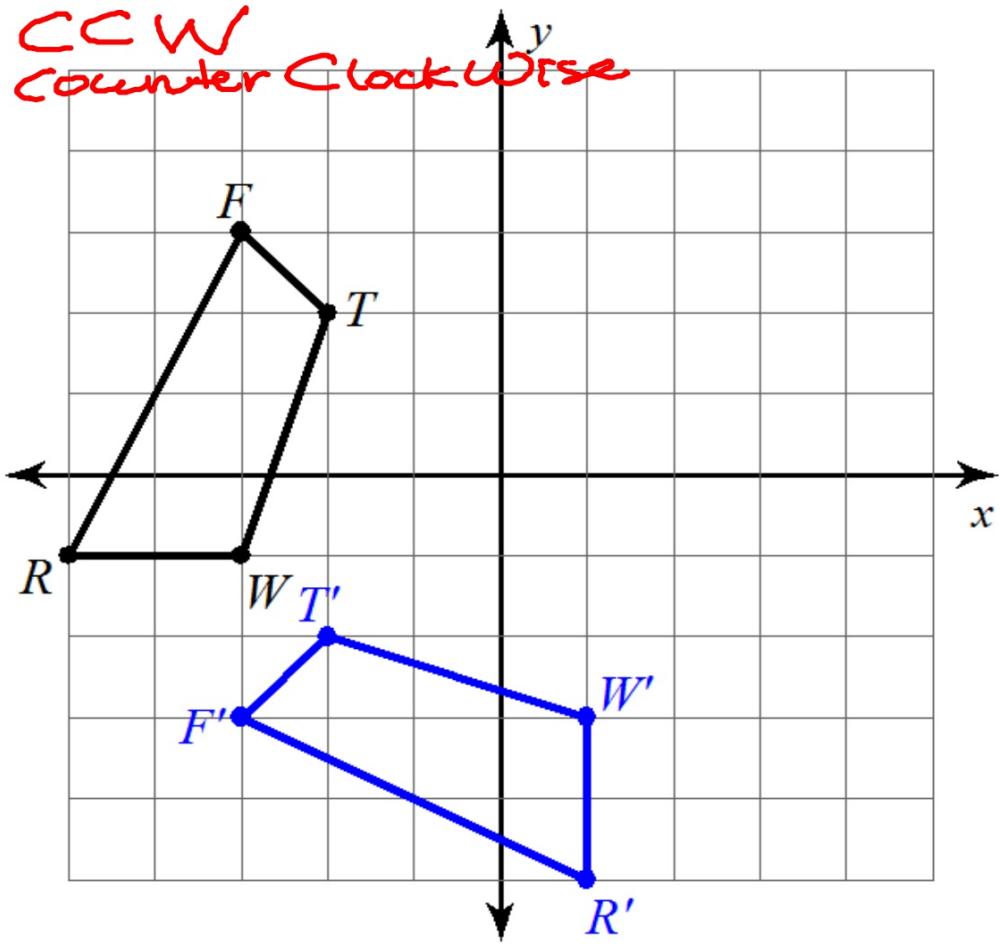


Write a rule to describe each transformation.

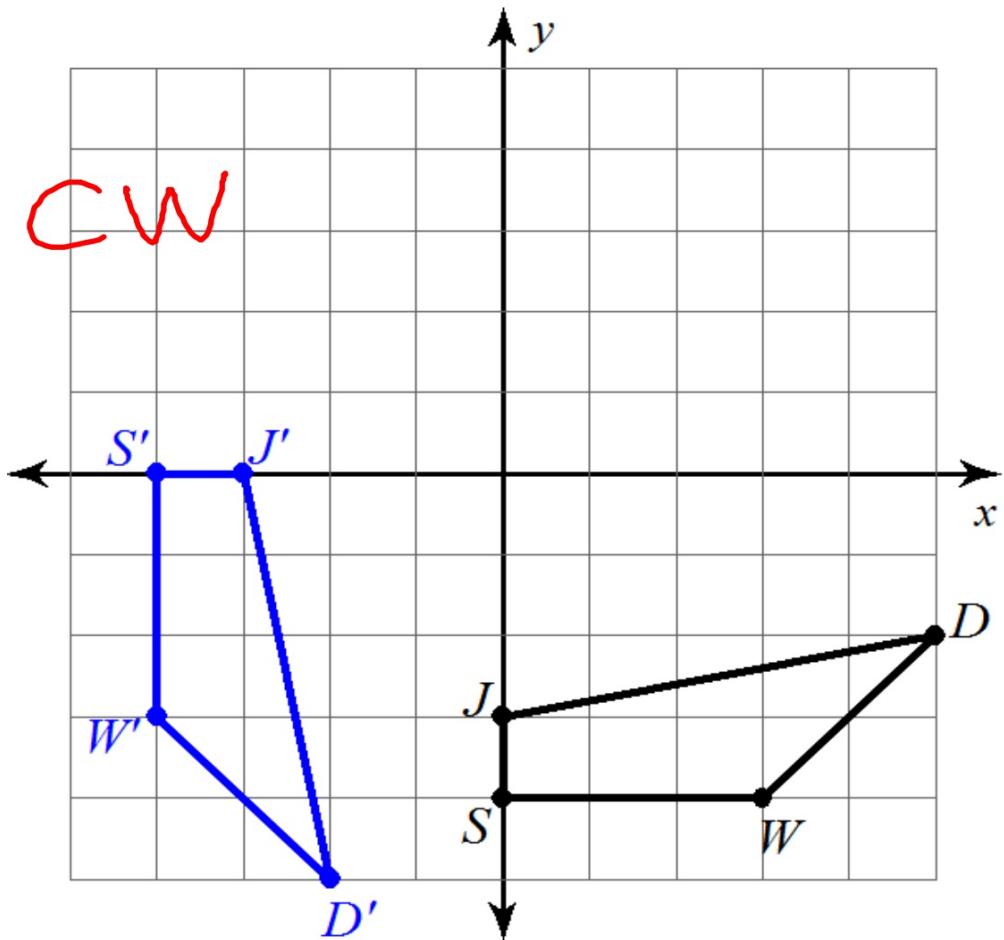
*180° rotation*



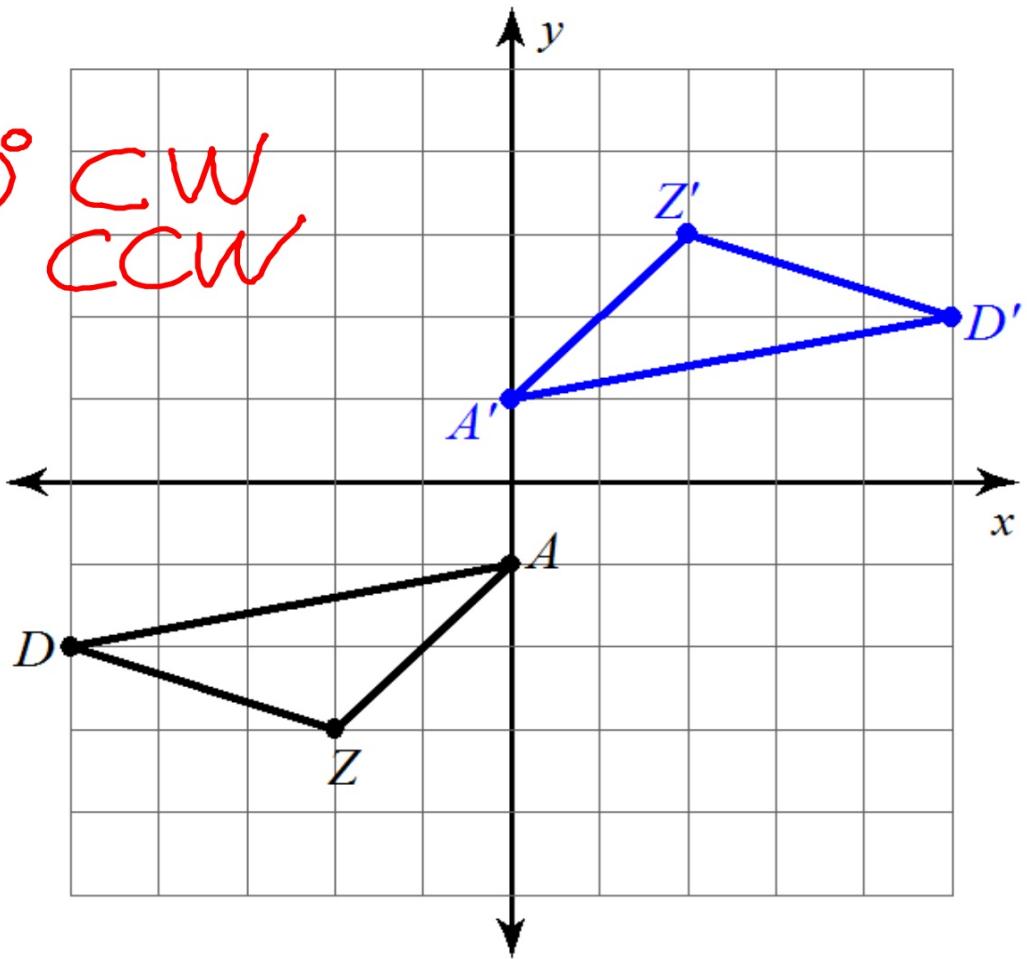
$90^\circ$  CCW  
Counter Clockwise



$90^\circ$  CW



$180^\circ$   
CW  
CCW



# Homework

Blue Similarity WS5

Due Tuesday

*Don't forget your baby pictures!*