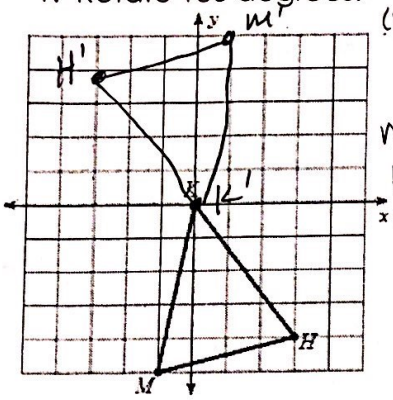
Day 1.5
Algebra 1 Classwork Rotations

Name: _____

Classwork/Homework: Rotations

Date: _____

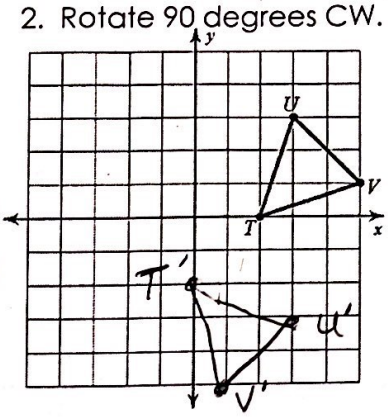
1. Rotate 180 degrees.



$(x,y) \rightarrow (-x,-y)$

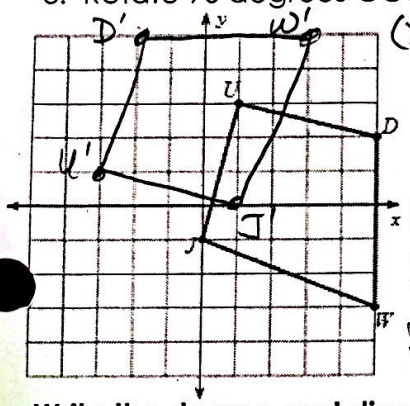
M (-1,-5) M' (1,5)
H (3,-4) H' (-3,4)
K (0,0) K' (0,0)

2. Rotate 90 degrees CW. $(x,y) \rightarrow (y,-x)$



T (2,0) T' (0,-2)
U (3,3) U' (3,-3)
V (5,1) V' (1,-5)

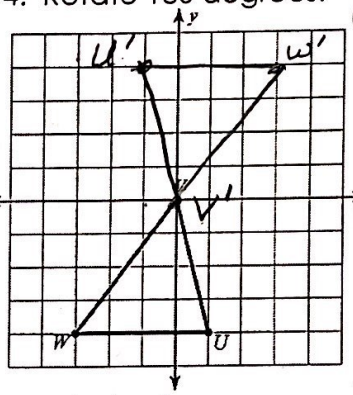
3. Rotate 90 degrees CCW.



$(x,y) \rightarrow (-y,x)$

W (5,-3) W' (3,5)
U (1,3) U' (-3,1)
J (0,-1) J' (1,0)
D (5,2) D' (-2,5)

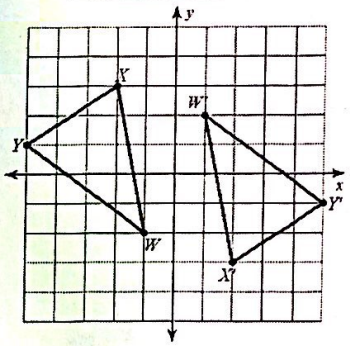
4. Rotate 180 degrees. $(x,y) \rightarrow (-x,-y)$



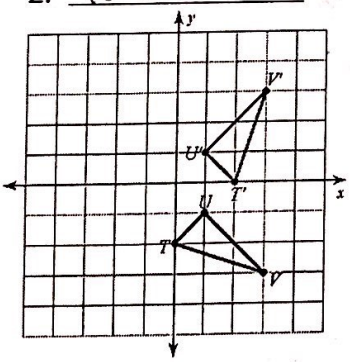
W (-3,-4) W' (3,4)
U (1,-4) U' (-1,4)
V (0,0) V' (0,0)

Write the degree and direction of the rotation shown below!

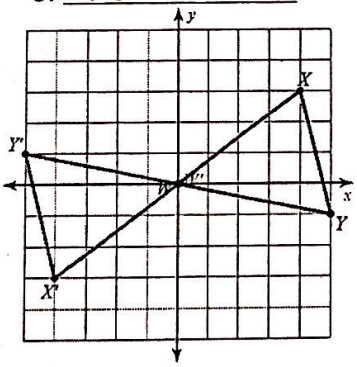
1. 180° rotation



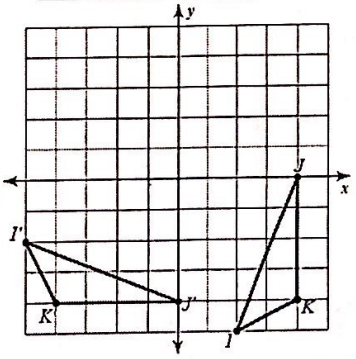
2. 90° ccw rotation



3. 180° rotation

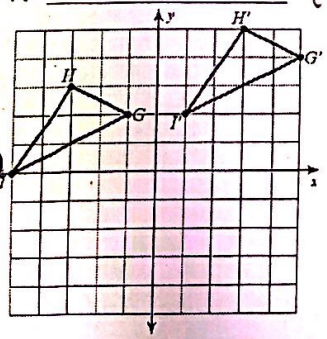


4. 90° cw rotation

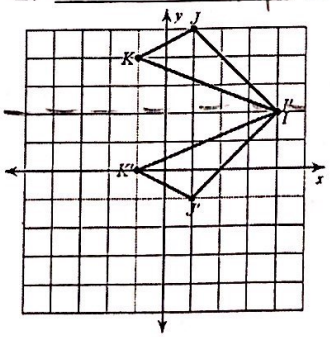


EVERYTHING! Write the translation vector, line of reflection, or direction and degree of rotation!

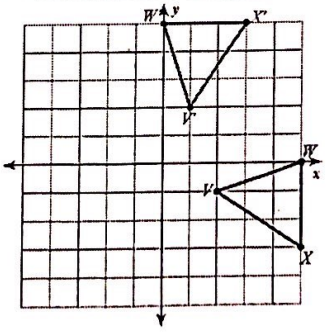
1. Translation ⟨6,2⟩



2. Reflection y=2



3. 90° ccw rotation



4. 180° rotation