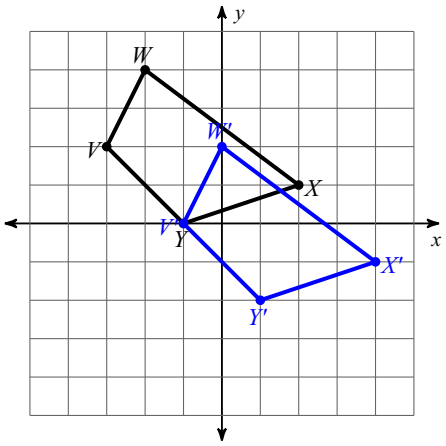
Geometry Name_____ ID: 1

Assignment Unit 6 June 1 to 5, 2020

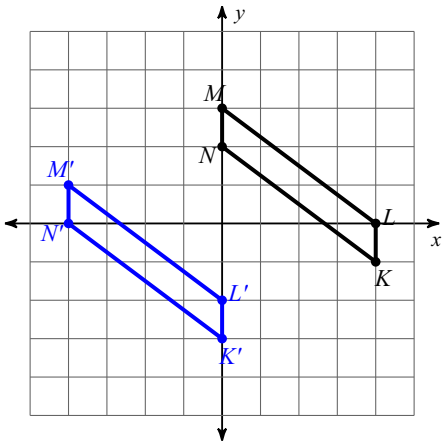
Date_____ Period____

Write a rule to describe each transformation. For example, for the first translation can have its's rule written two ways. In English as: The original figure was translated 2 units right and 2 units down. Or as a mapping rule of (x,y) ---> (x+2,y-2)

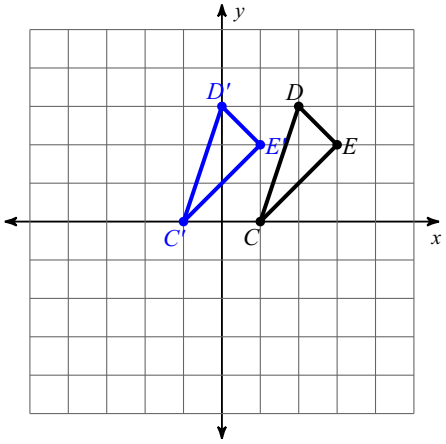
1)



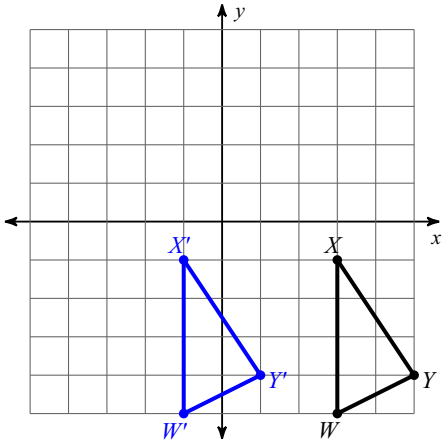
2)



3)

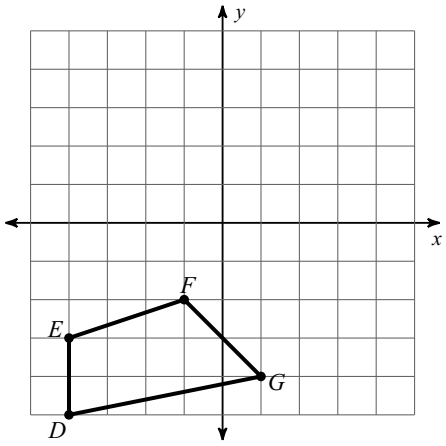


4)

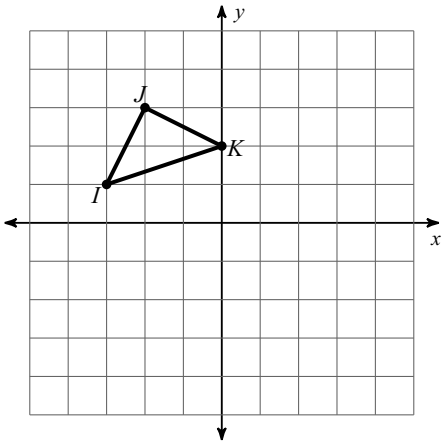


Graph the image of the figure using the transformation given.

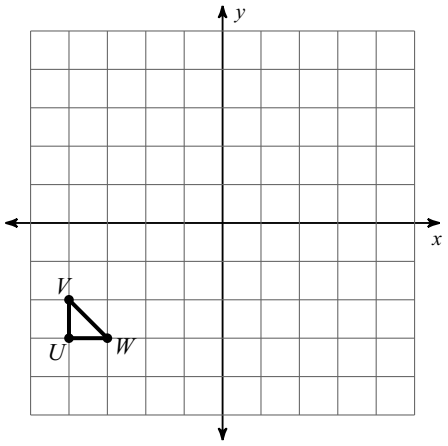
5) translation: 1 unit right



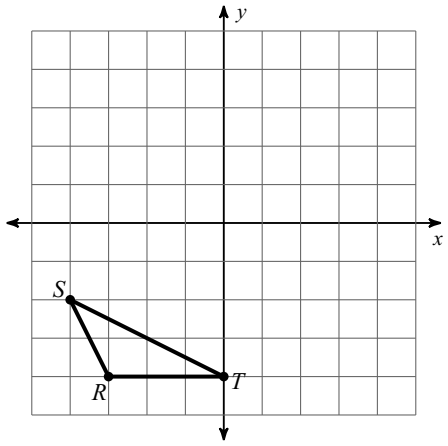
6) translation: 2 units left and 6 units down



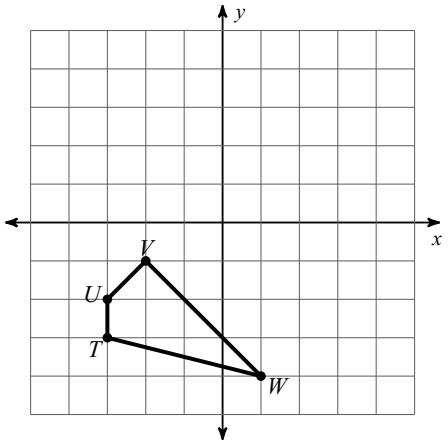
7) translation: 7 units right and 2 units up



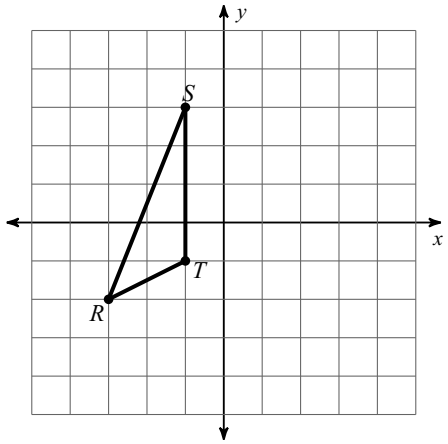
8) translation: 2 units right and 7 units up



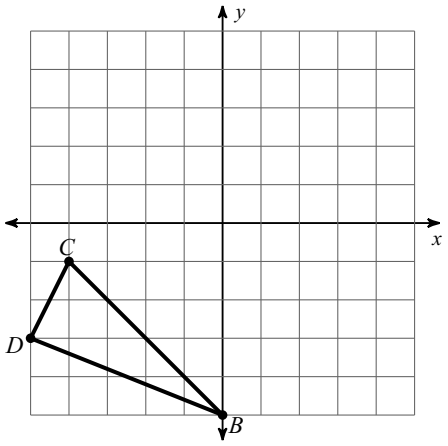
9) reflection across the y-axis



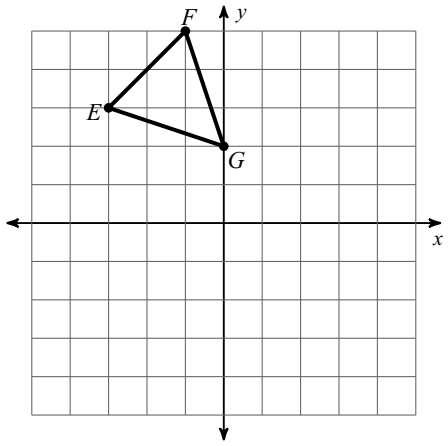
10) reflection across the y-axis



11) reflection across the y-axis

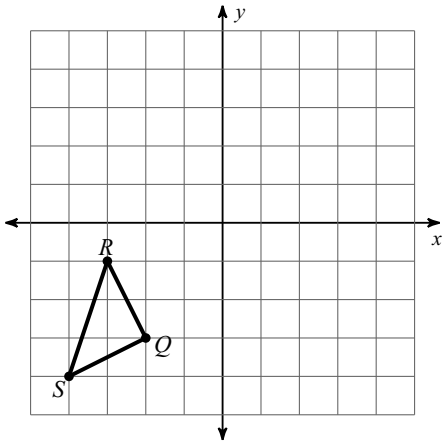


12) reflection across the x-axis

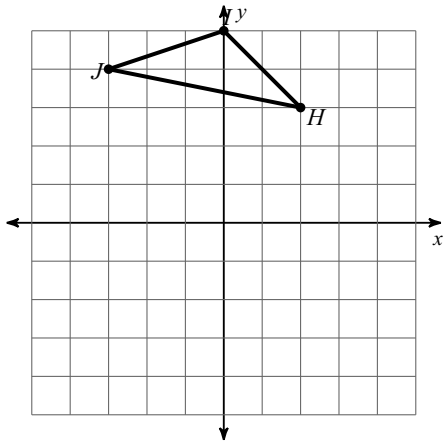


Graph the image of the figure using the transformation given. Please consult rotation rules in your text on page 306. For example, if one vertex of the figure is A (3,5) rotated 90 degrees clockwise about the origin, then we use the rule (x,y)--->(y,-x). So A(3,5) will now be A '(5,-3). If you connect the two points, you should notice they form a 90 degree angle with origin.

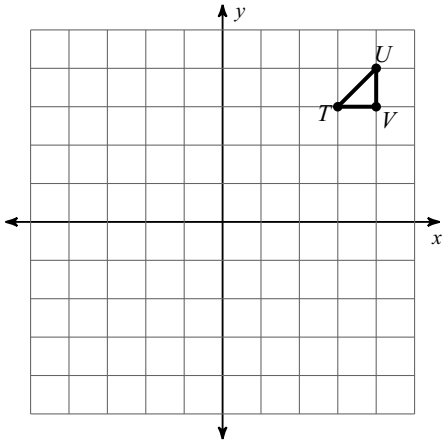
13) rotation 180° about the origin



14) rotation 180° about the origin



15) rotation 90° counterclockwise about the origin



16) rotation 90° counterclockwise about the origin