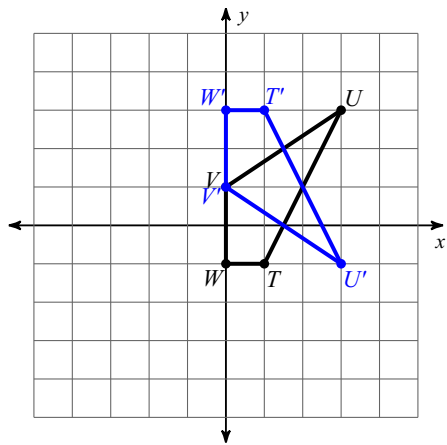


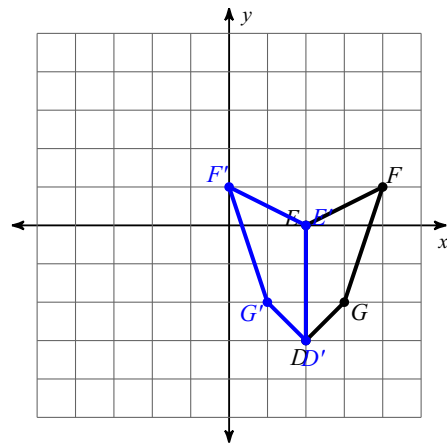
Geometry - Homework 39

Write a rule to describe each transformation.

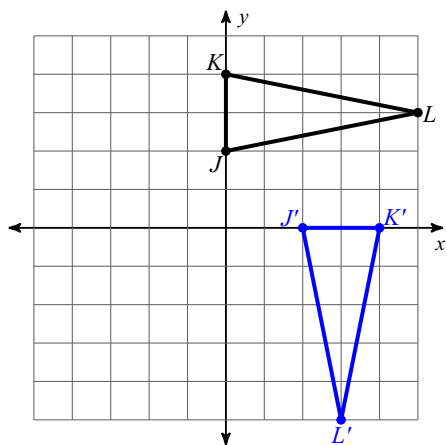
1)



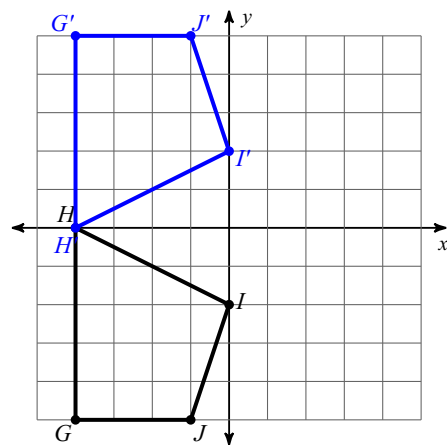
2)



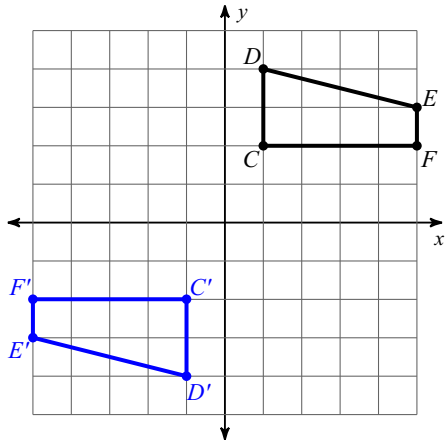
3)



4)

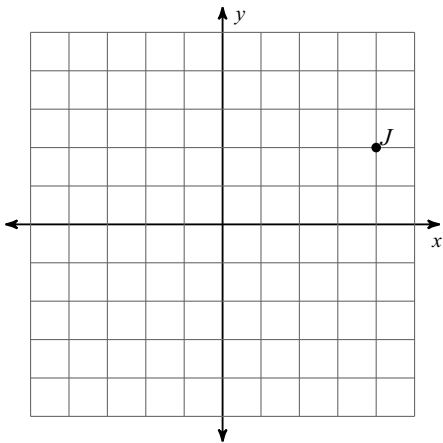


5)

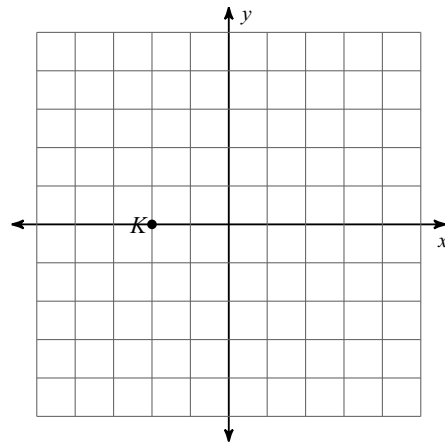


Graph the image of the figure using the transformation given.

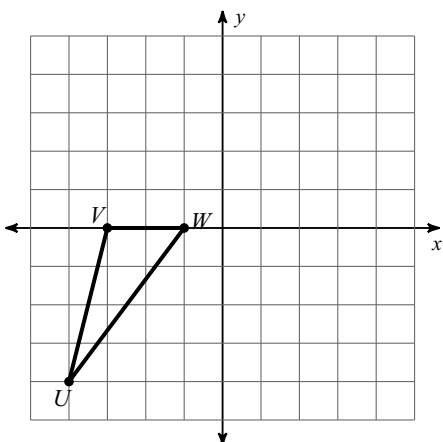
6) translation: 1 unit right and 3 units up



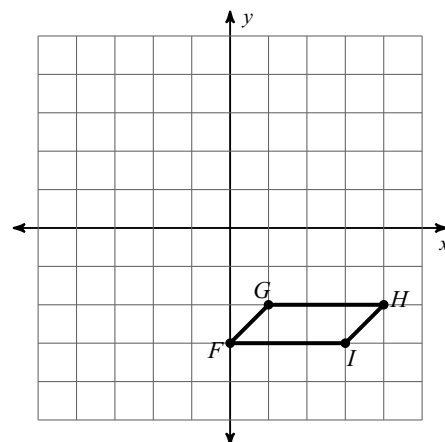
7) reflection across the y-axis



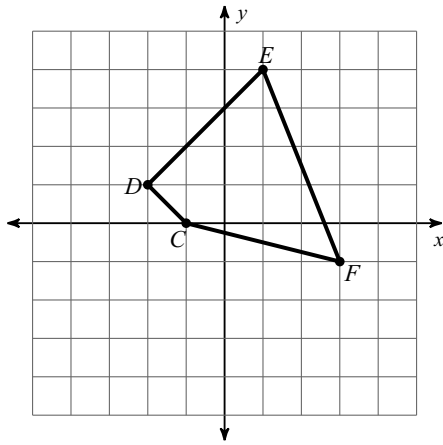
8) reflection across the x-axis



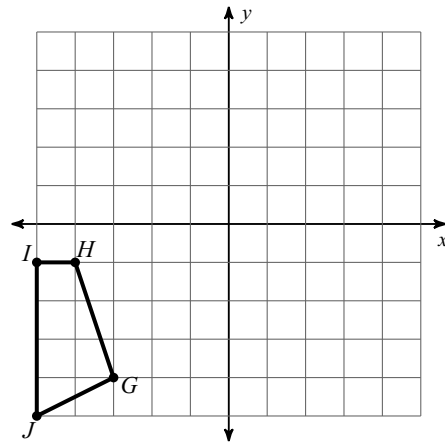
9) translation: 5 units left and 7 units up



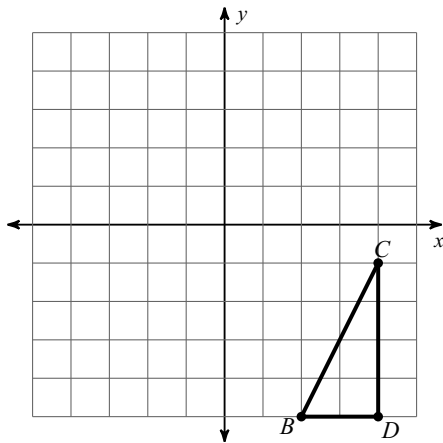
10) reflection across $y = 1$



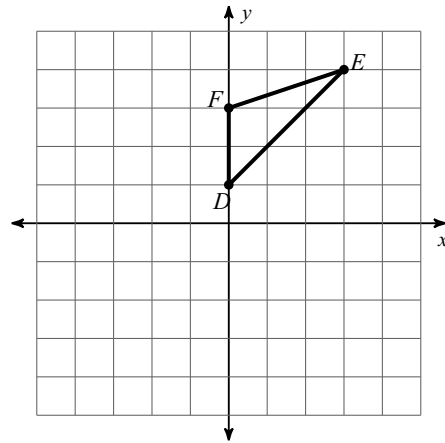
11) rotation 180° about the origin



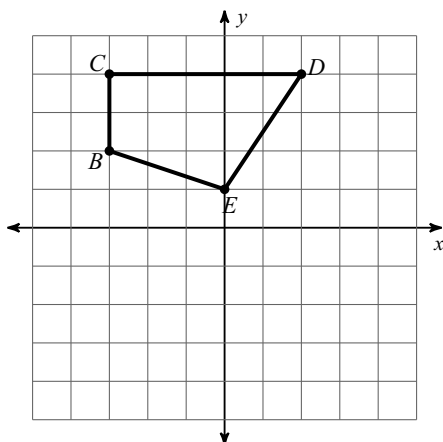
12) rotation 90° counterclockwise about the origin



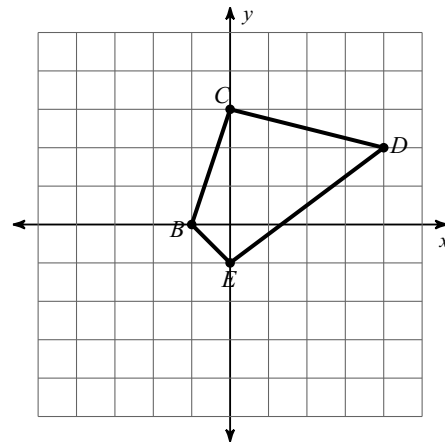
13) reflection across $x = 2$



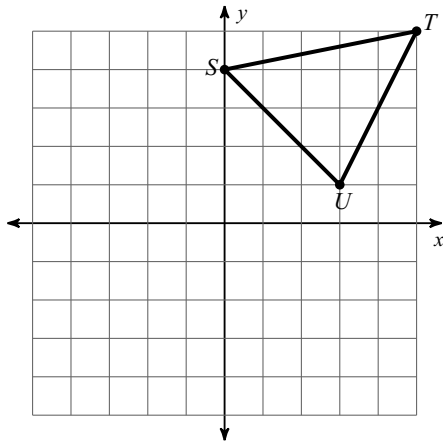
14) reflection across $x = -1$



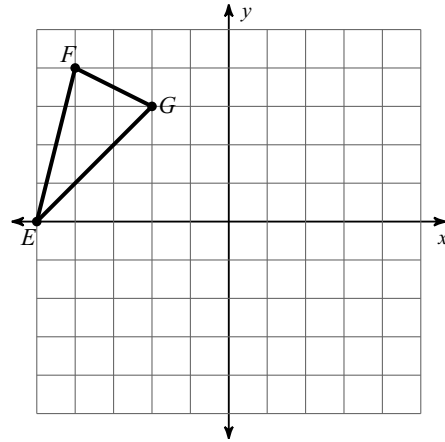
15) translation: 4 units left and 2 units up



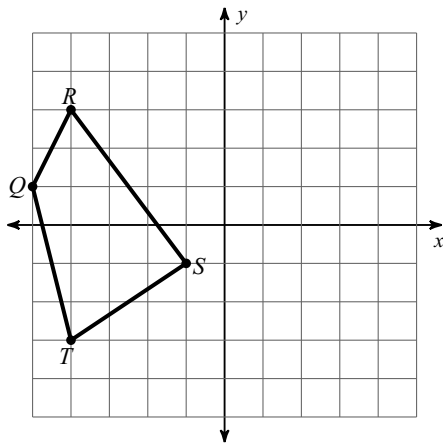
16) reflection across $y = 1$



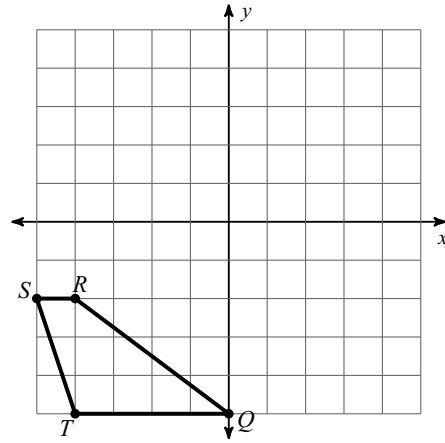
17) rotation 90° counterclockwise about the origin



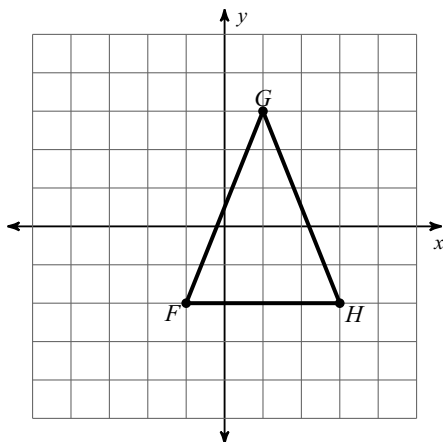
18) translation: $(x, y) \rightarrow (x + 2, y + 1)$



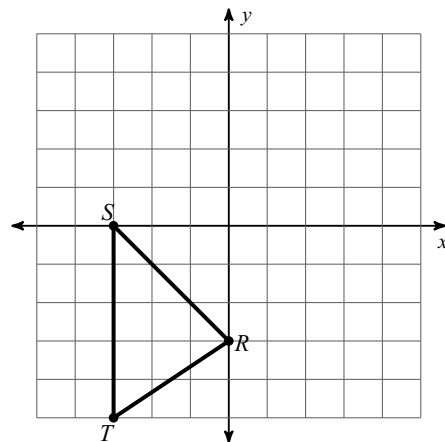
19) rotation 180° about the origin



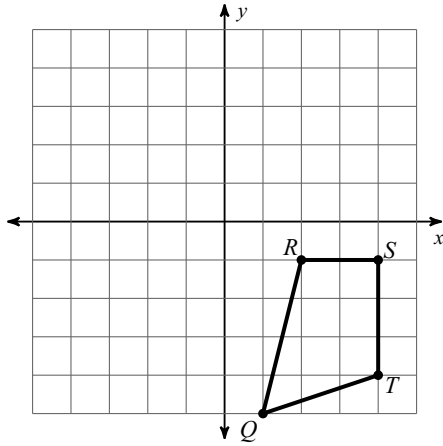
20) translation: $(x, y) \rightarrow (x + 2, y + 1)$



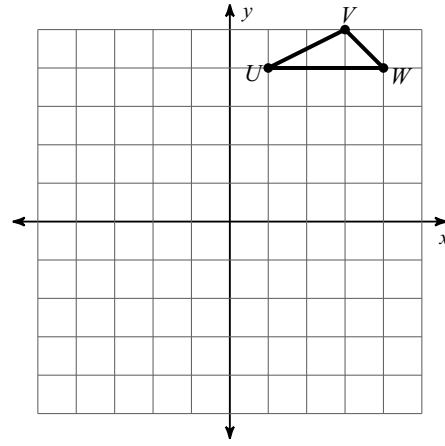
21) rotation 90° counterclockwise about the origin



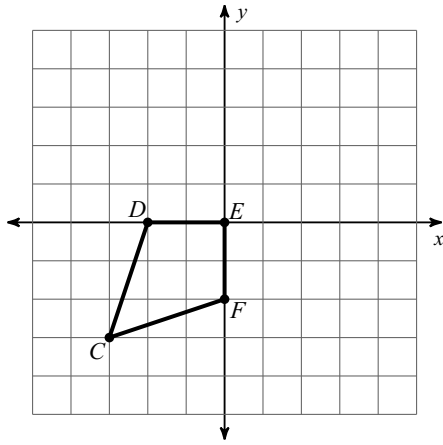
22) rotation 90° counterclockwise about the origin



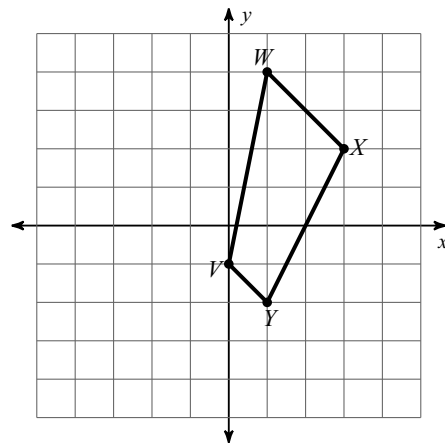
23) rotation 90° counterclockwise about the origin



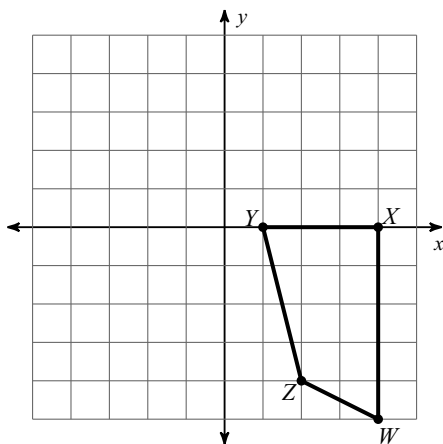
24) rotation 180° about the origin



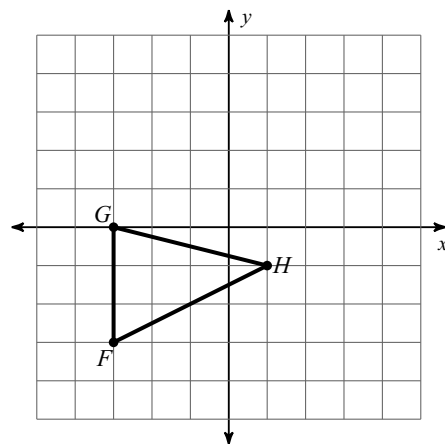
25) translation: $(x, y) \rightarrow (x - 2, y + 1)$



26) translation: $(x, y) \rightarrow (x - 4, y + 2)$

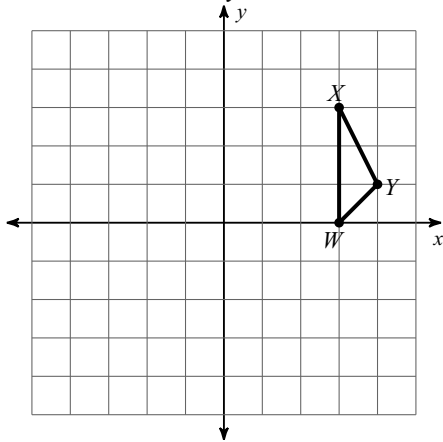


27) reflection across $y = x$

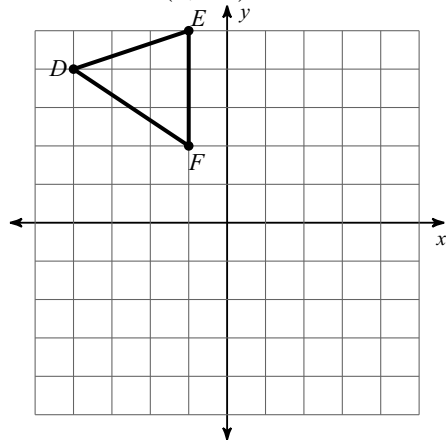


Find the coordinates of the vertices of each figure after the given transformation.

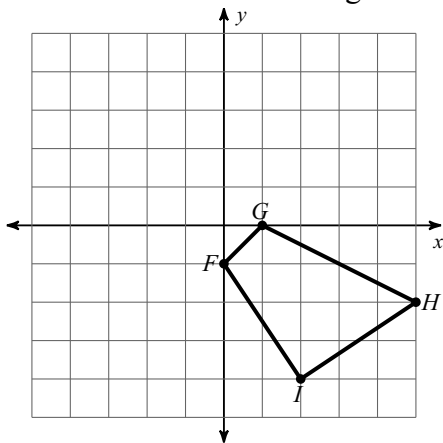
28) reflection across $y = 2$



29) translation: $(4, -4)$



30) rotation 180° about the origin

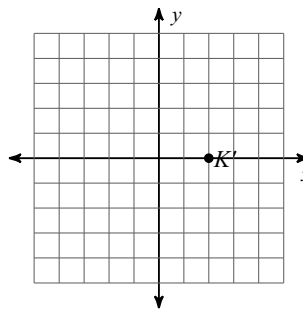


Answers to Geometry - Homework 39

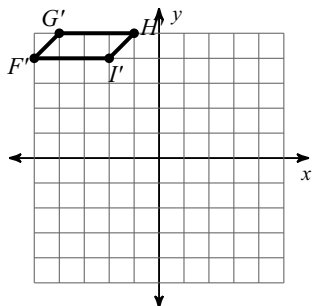
- 1) reflection across $y = 1$
 5) rotation 180° about the origin

- 3) rotation 90° clockwise about the origin

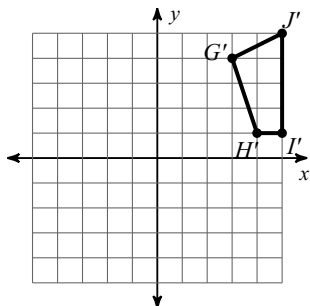
7)



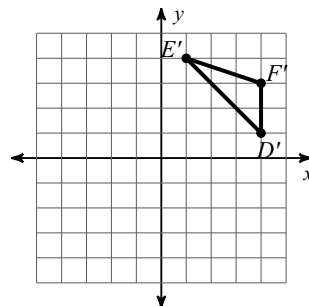
9)



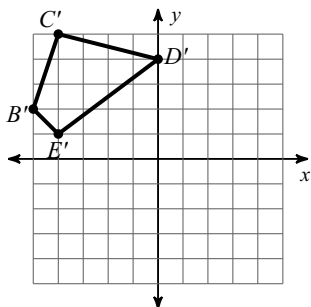
11)



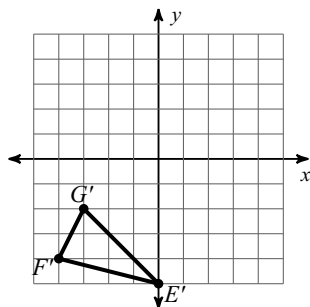
13)



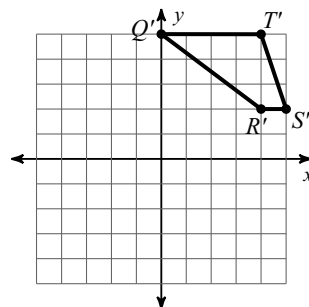
15)



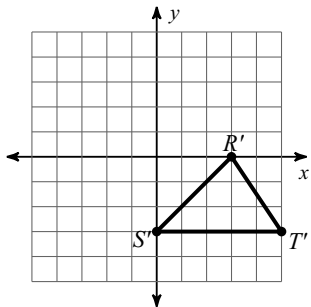
17)



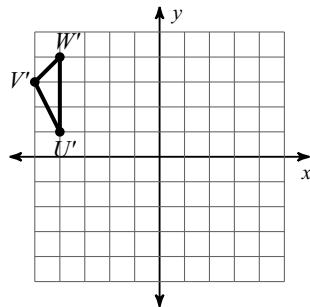
19)



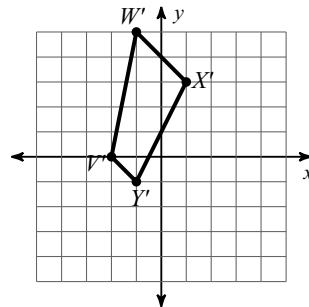
21)



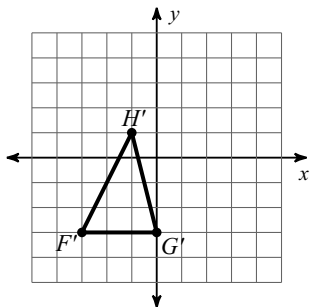
23)



25)



27)



- 29) $D'(0, 0), E'(3, 1), F'(3, -2)$