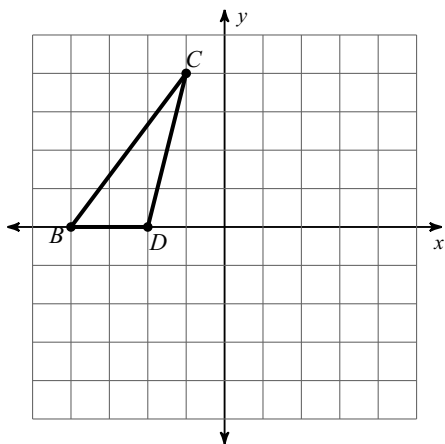


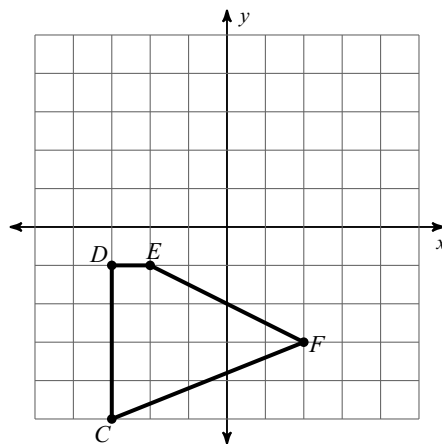
# Reflections Over Lines

**Graph the image of the figure using the transformation given.**

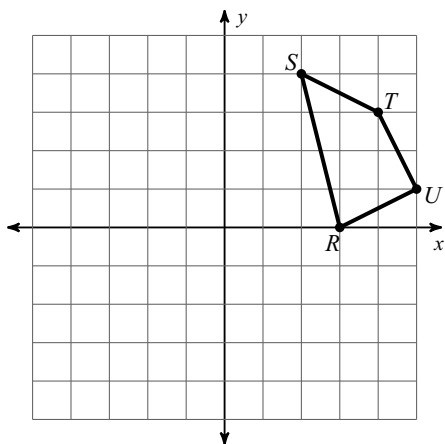
1) reflection across  $y = -x$



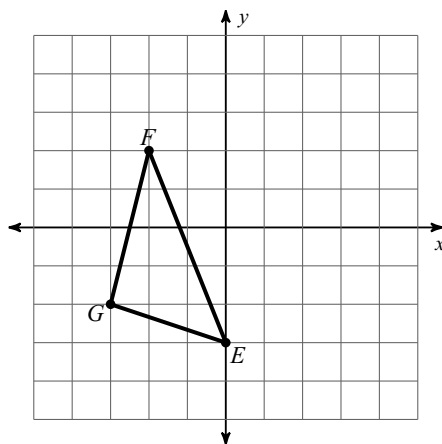
2) reflection across  $y = x$



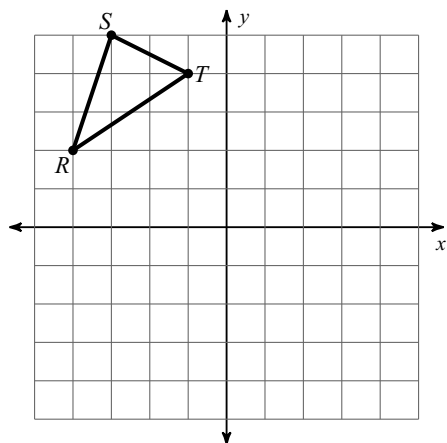
3) reflection across  $y = x$



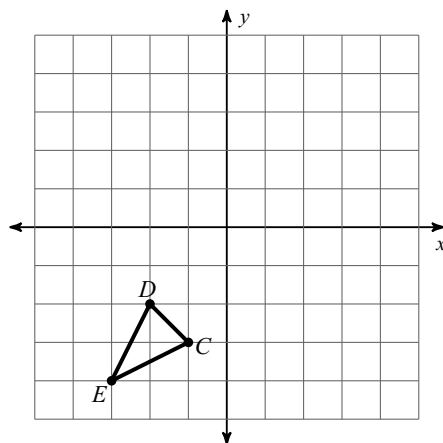
4) reflection across  $y = -x$



5) reflection across  $y = 1$

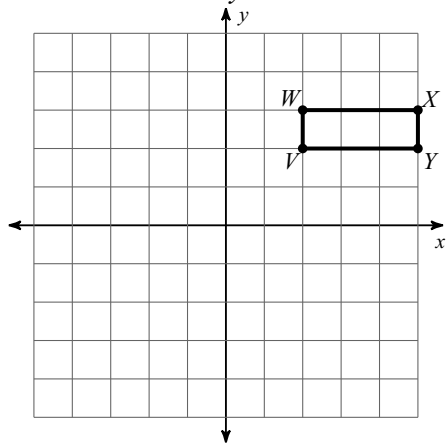


6) reflection across  $x = -1$

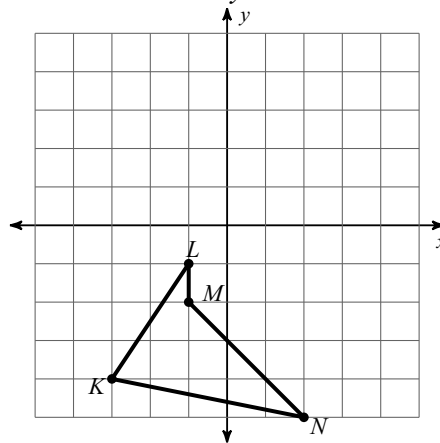


**Find the coordinates of the vertices of each figure after the given transformation.**

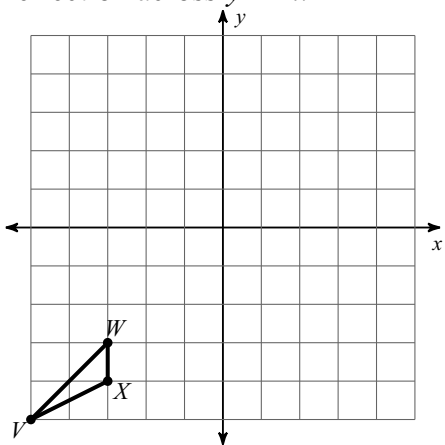
7) reflection across  $y = x$



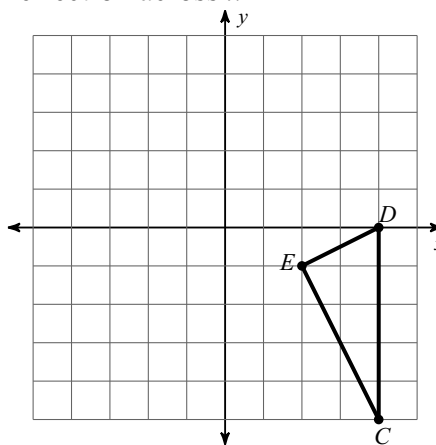
8) reflection across  $y = -3$



9) reflection across  $y = -x$

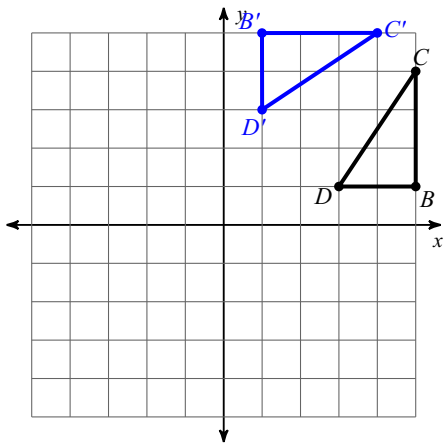


10) reflection across  $x = 1$

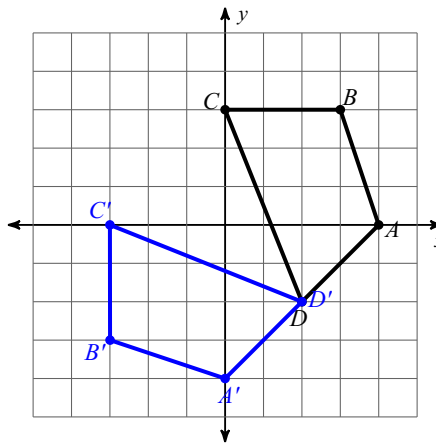


Write a rule to describe each transformation.

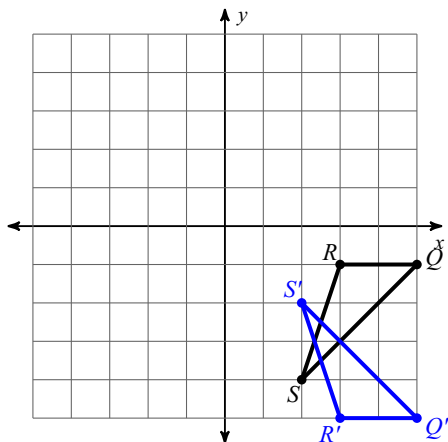
11)



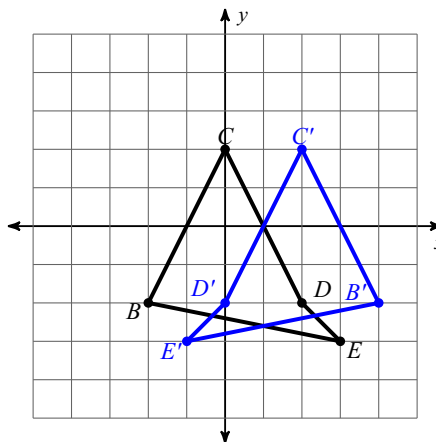
12)



13)



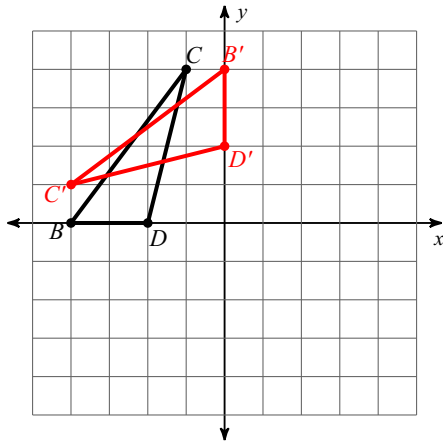
14)



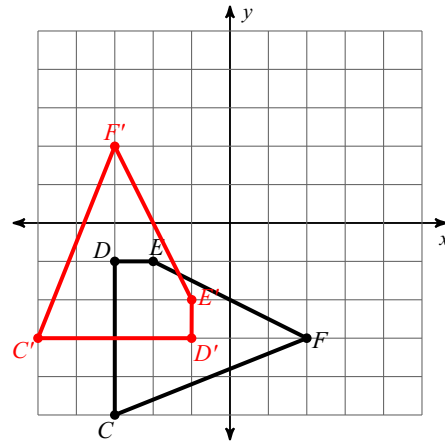
# Reflections Over Lines

Graph the image of the figure using the transformation given.

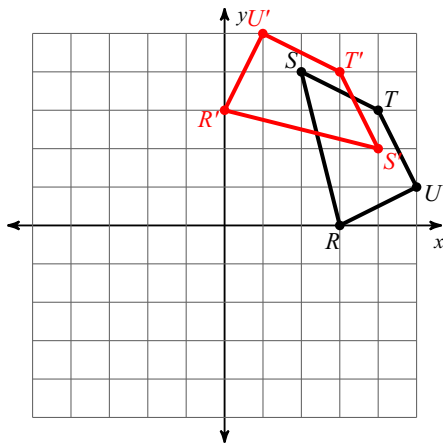
1) reflection across  $y = -x$



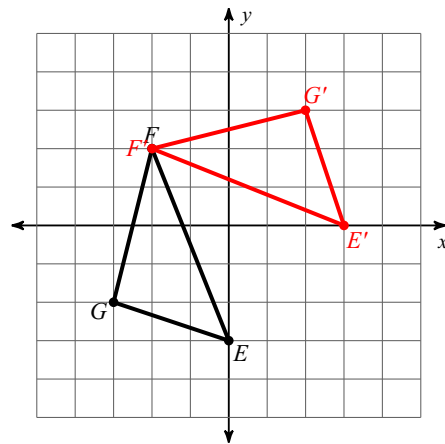
2) reflection across  $y = x$



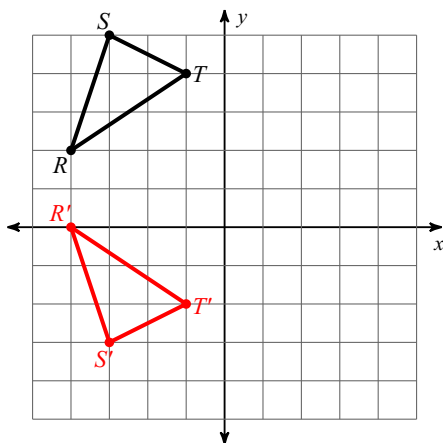
3) reflection across  $y = x$



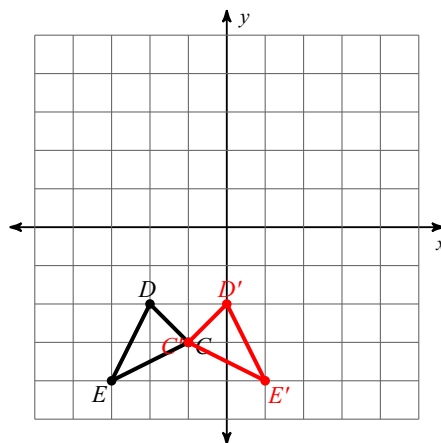
4) reflection across  $y = -x$



5) reflection across  $y = 1$

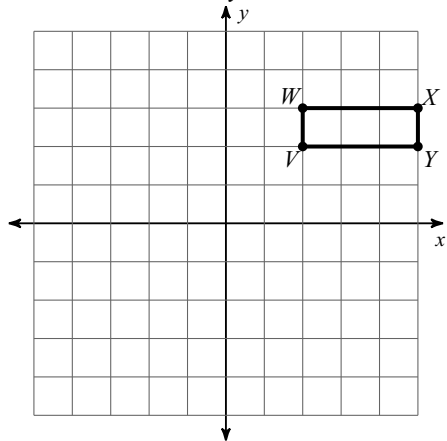


6) reflection across  $x = -1$



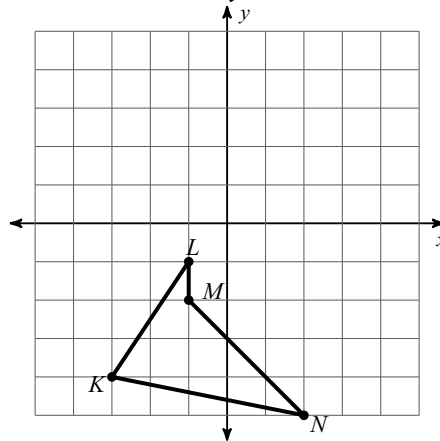
**Find the coordinates of the vertices of each figure after the given transformation.**

7) reflection across  $y = x$



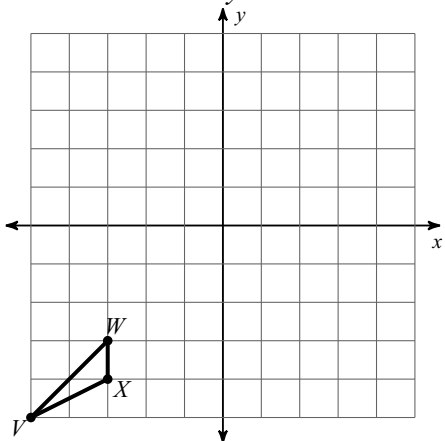
$W'(3, 2), X'(3, 5), Y'(2, 5), Z'(2, 2)$

8) reflection across  $y = -3$



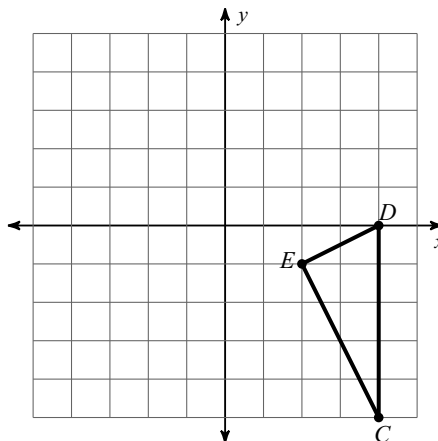
$L'(-1, -5), M'(-1, -4), N'(2, -1), K'(-3, -2)$

9) reflection across  $y = -x$



$W(3, 3), X(4, 3), V(5, 5)$

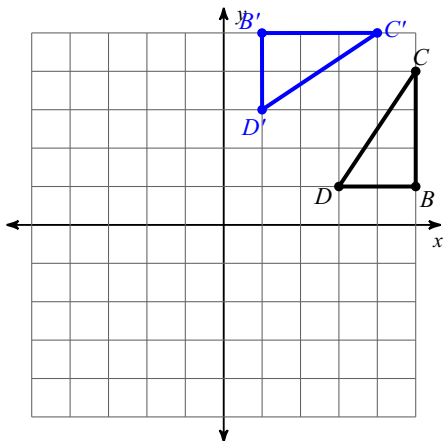
10) reflection across  $x = 1$



$D(-2, 0), C(-2, -5), E(0, -1)$

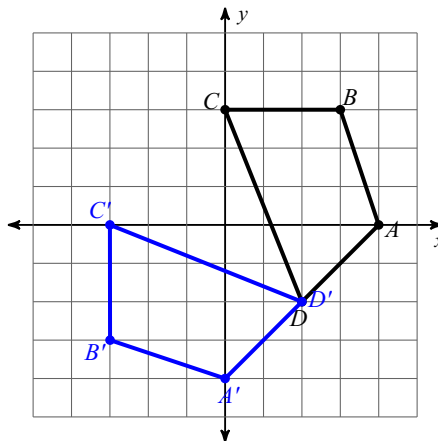
Write a rule to describe each transformation.

11)



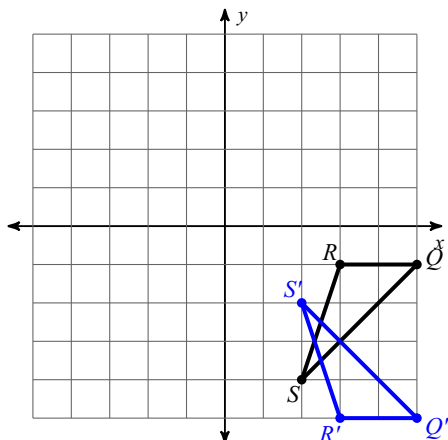
reflection across  $y = x$

12)



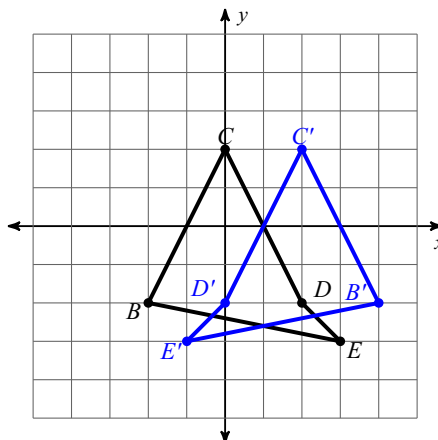
reflection across  $y = -x$

13)



reflection across  $y = -3$

14)



reflection across  $x = 1$