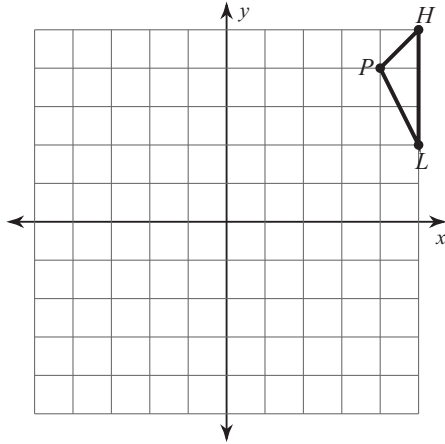
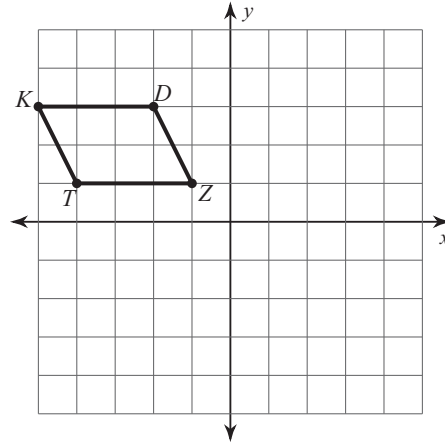


Graph the image of the figure using the transformation given.

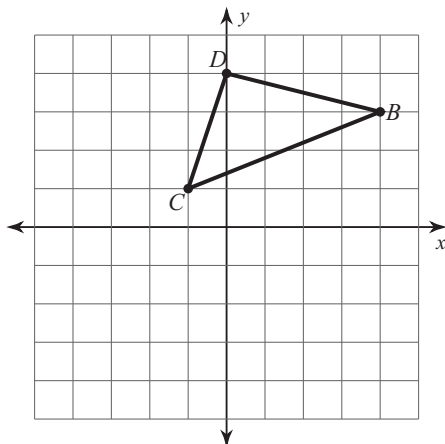
1) reflection across the y-axis



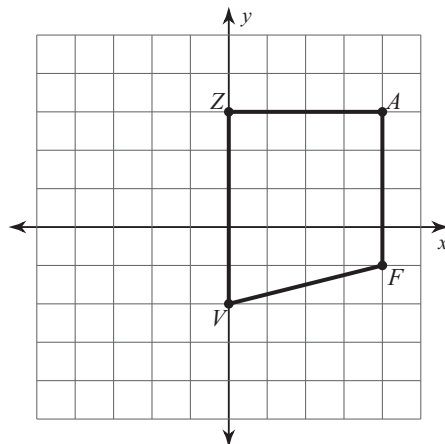
2) reflection across the x-axis



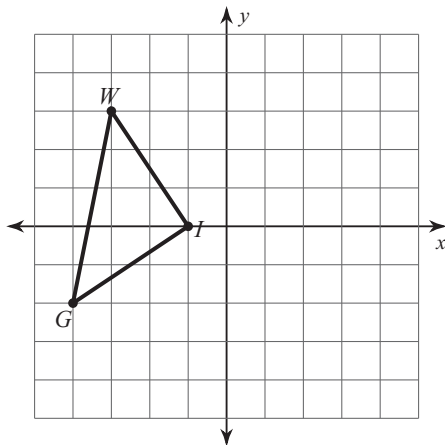
3) reflection across the y-axis



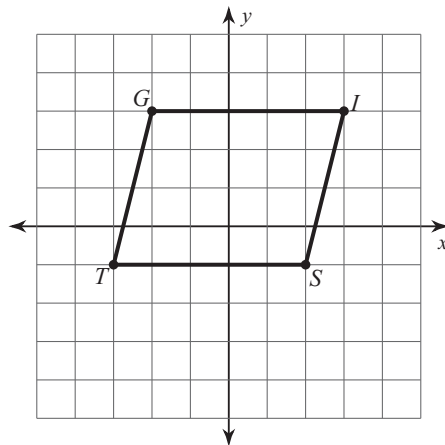
4) reflection across the x-axis



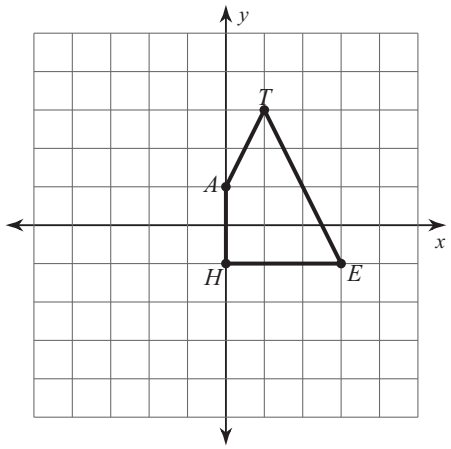
5) reflection across the y-axis



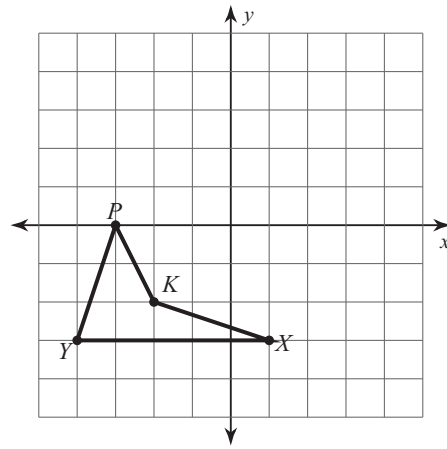
6) reflection across the y-axis



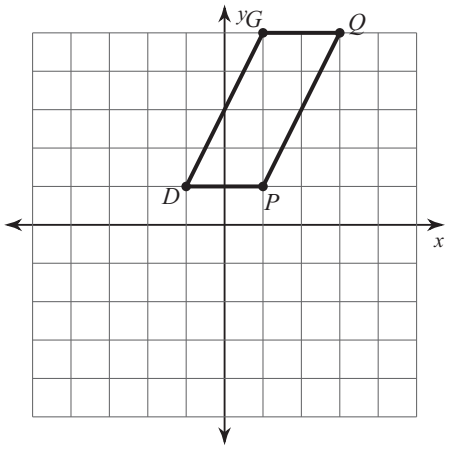
7) translation: $(x, y) \rightarrow (x - 5, y + 2)$



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

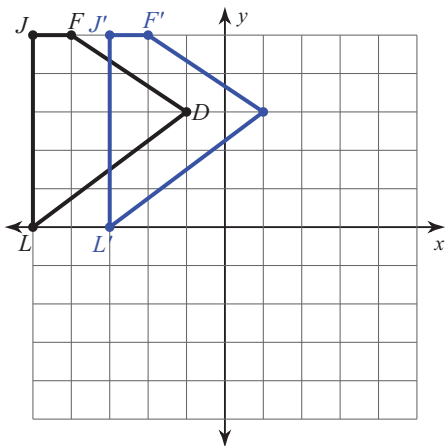


9) translation: $(x, y) \rightarrow (x - 2, y - 1)$

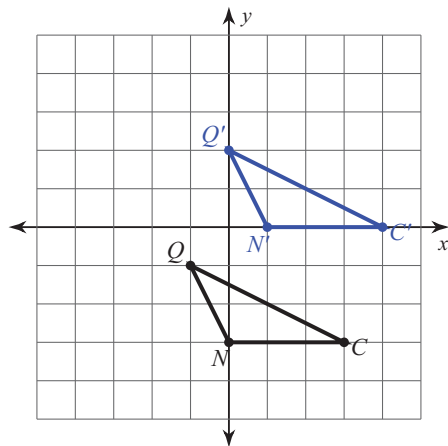


Write a rule to describe each transformation.

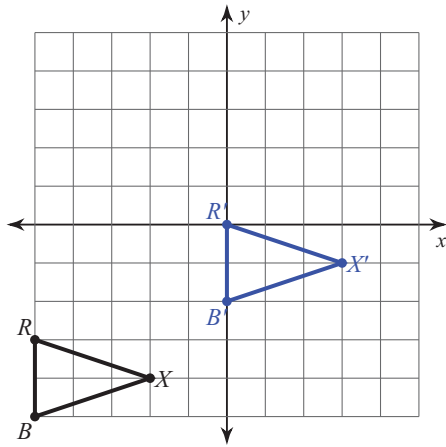
10)



11)

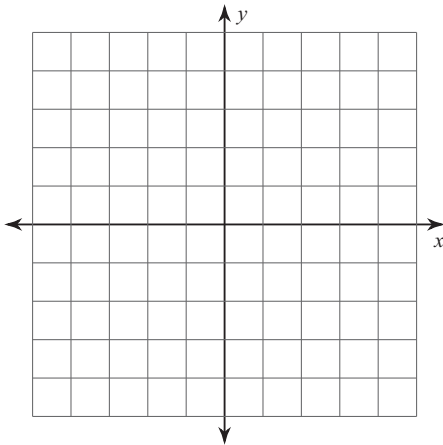


12)

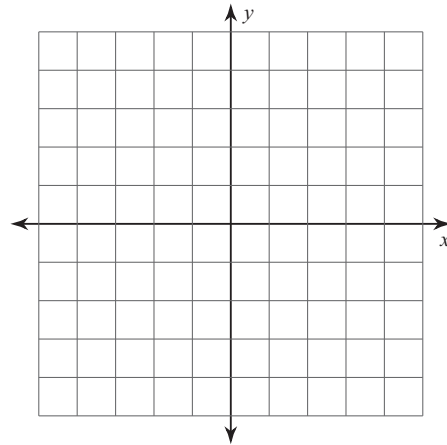


Graph the image of the figure using the transformation given.

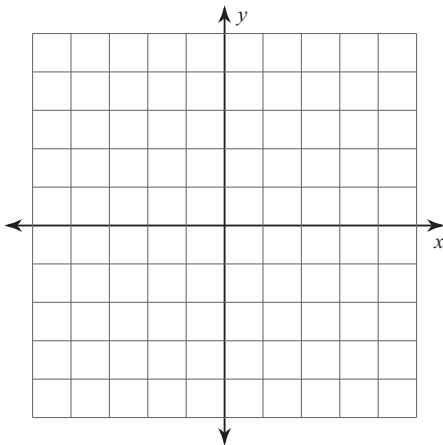
- 13) rotation 90° counterclockwise about the origin
 $M(0, -4), H(1, -2), D(4, -2), U(1, -5)$



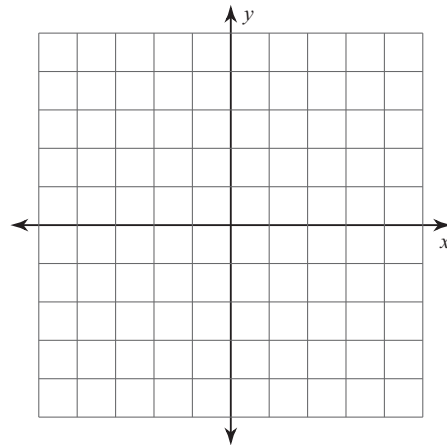
- 14) rotation 180° about the origin
 $Z(-4, 1), L(-5, 4), X(-2, 5), U(-2, 4)$



- 15) rotation 180° about the origin
 $C(-4, -4), B(-4, -2), S(1, -3)$

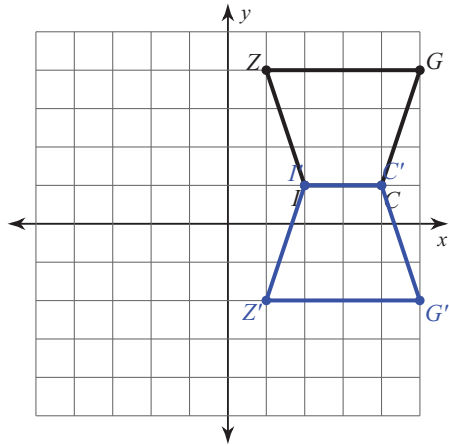


- 16) rotation 90° counterclockwise about the origin
 $S(0, 1), E(1, 3), A(3, 1)$

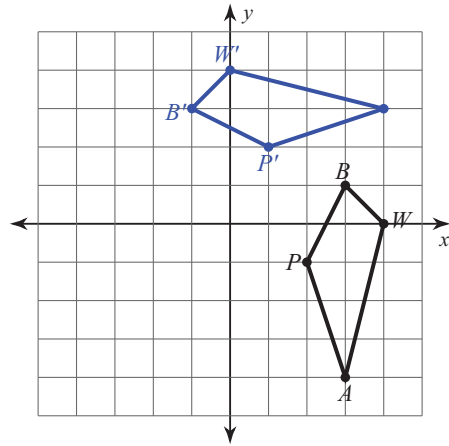


Write a rule to describe each transformation.

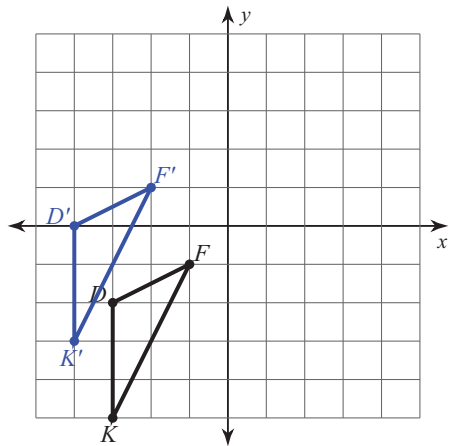
17)



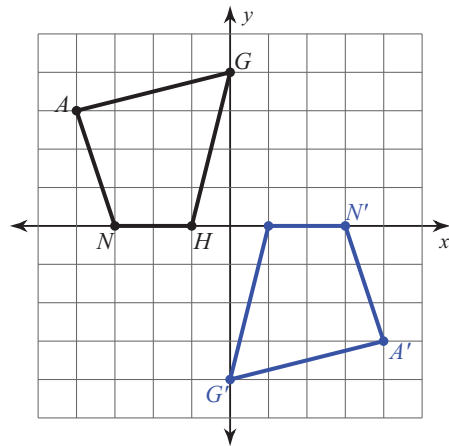
18)



19)

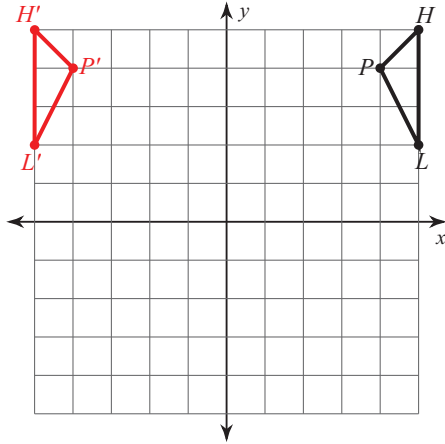


20)

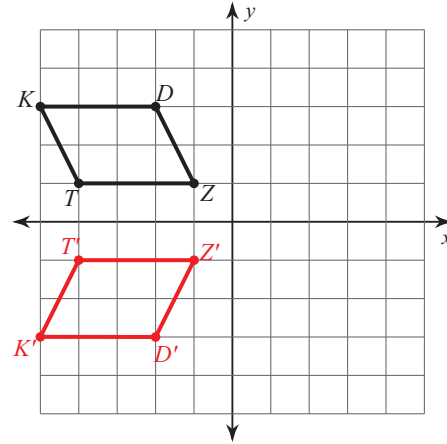


Graph the image of the figure using the transformation given.

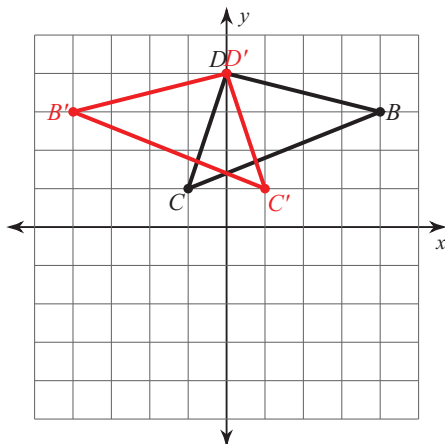
1) reflection across the y-axis



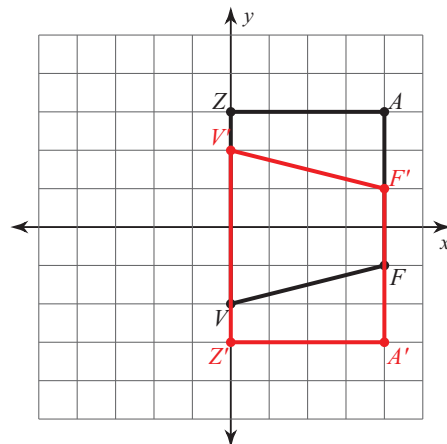
2) reflection across the x-axis



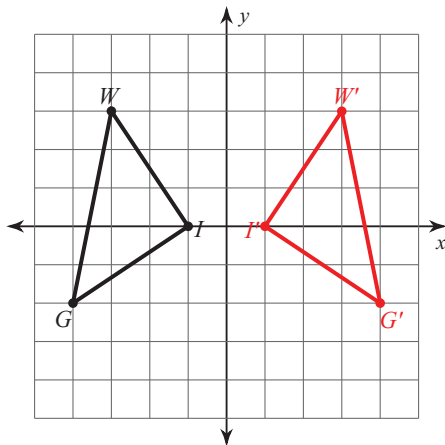
3) reflection across the y-axis



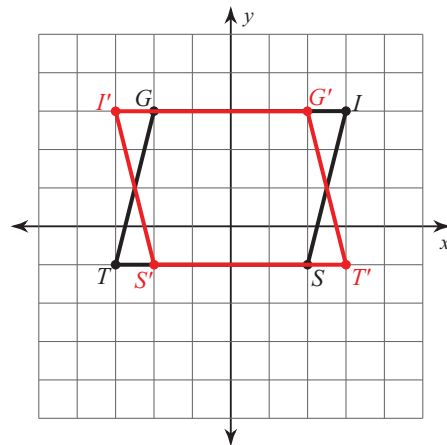
4) reflection across the x-axis



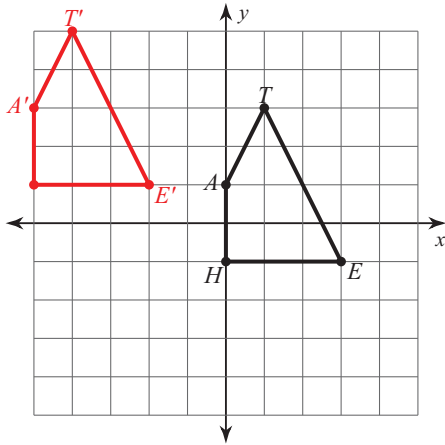
5) reflection across the y-axis



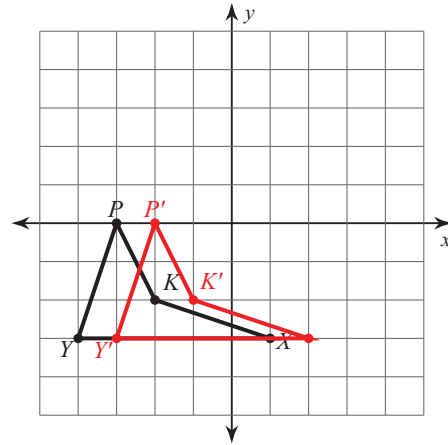
6) reflection across the y-axis



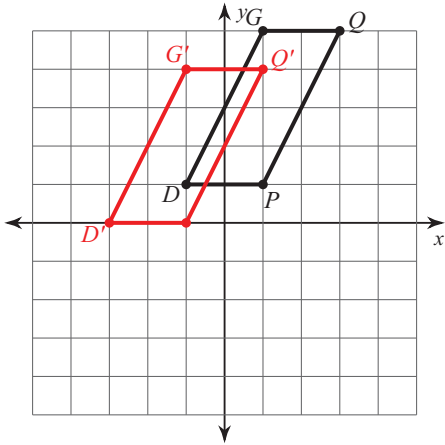
7) translation: $(x, y) \rightarrow (x - 5, y + 2)$



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

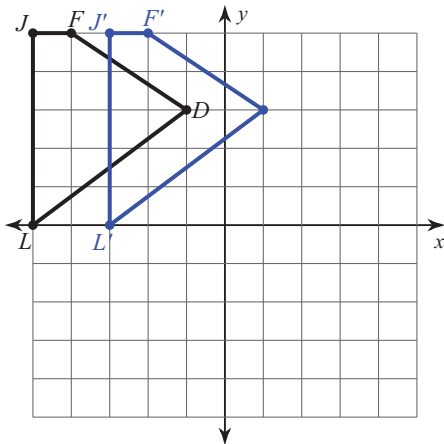


9) translation: $(x, y) \rightarrow (x - 2, y - 1)$



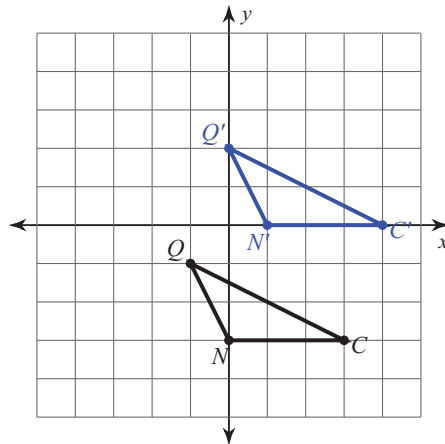
Write a rule to describe each transformation.

10)



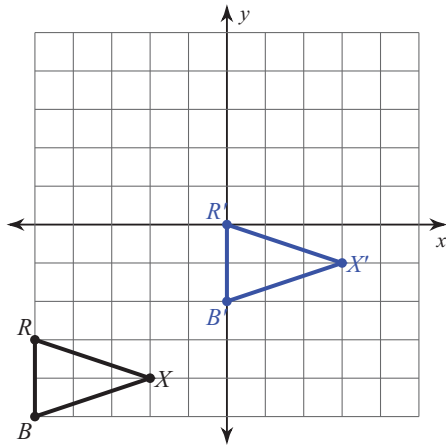
translation: 2 units right

11)



translation: 1 unit right and 3 units up

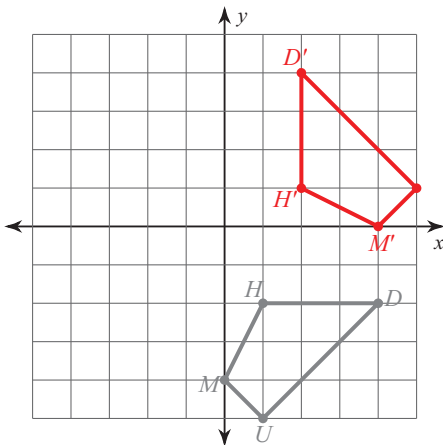
12)



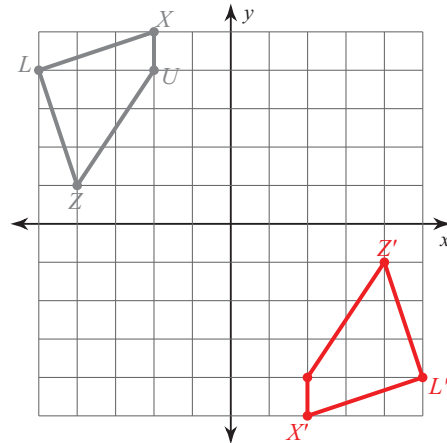
translation: 5 units right and 3 units up

Graph the image of the figure using the transformation given.

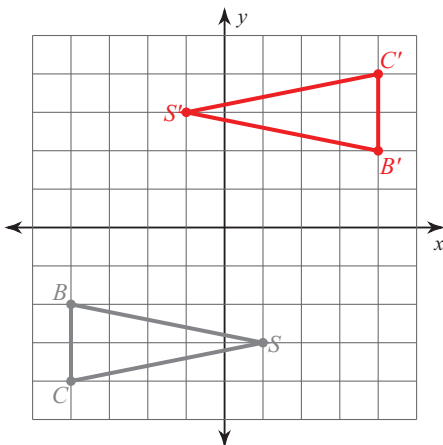
- 13) rotation 90° counterclockwise about the origin
 $M(0, -4), H(1, -2), D(4, -2), U(1, -5)$



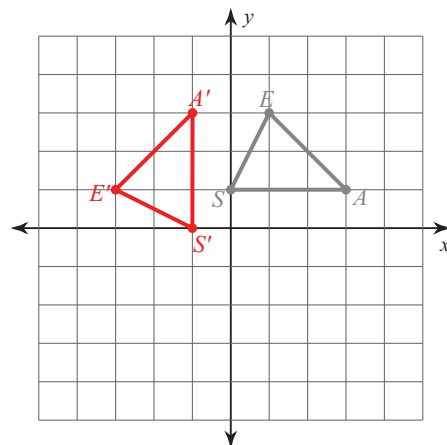
- 14) rotation 180° about the origin
 $Z(-4, 1), L(-5, 4), X(-2, 5), U(-2, 4)$



- 15) rotation 180° about the origin
 $C(-4, -4), B(-4, -2), S(1, -3)$

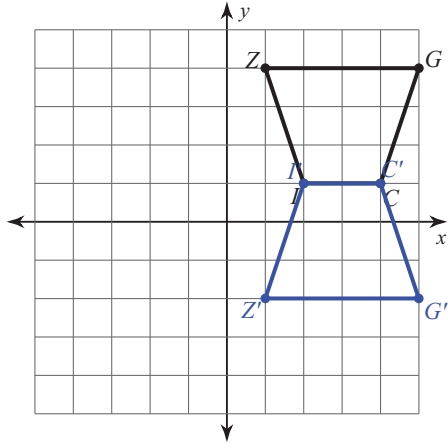


- 16) rotation 90° counterclockwise about the origin
 $S(0, 1), E(1, 3), A(3, 1)$



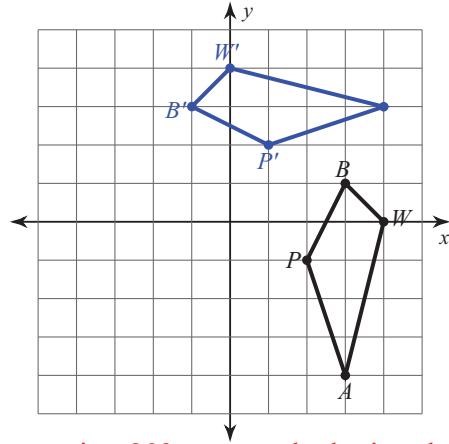
Write a rule to describe each transformation.

17)



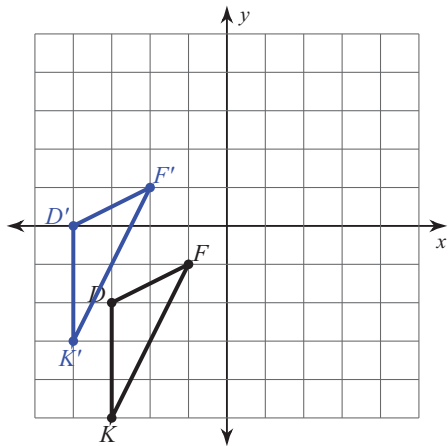
reflection across $y = 1$

18)



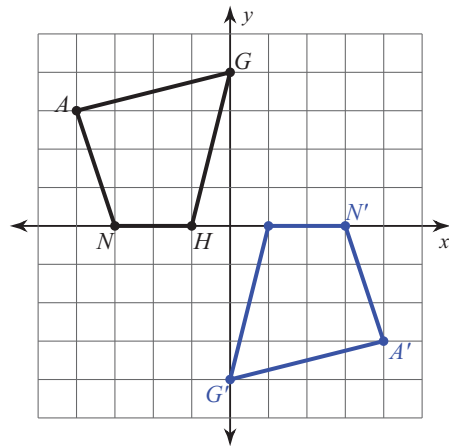
rotation 90° counterclockwise about the origin

19)



translation: 1 unit left and 2 units up

20)



rotation 180° about the origin