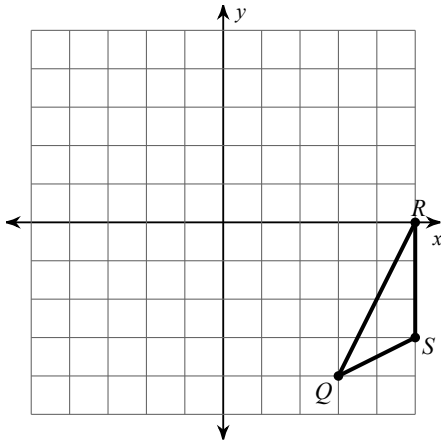
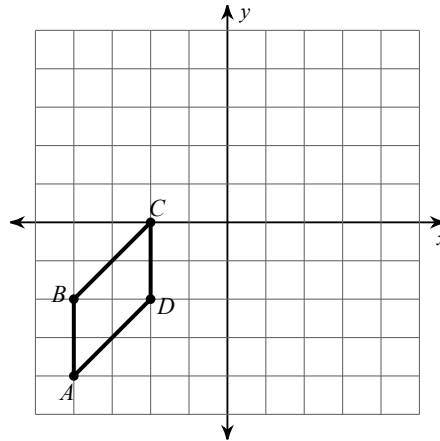


Graph the image of the figure using the transformation given.

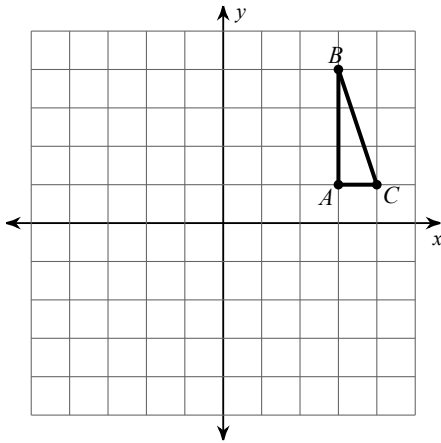
1) translation: 7 units left and 5 units up



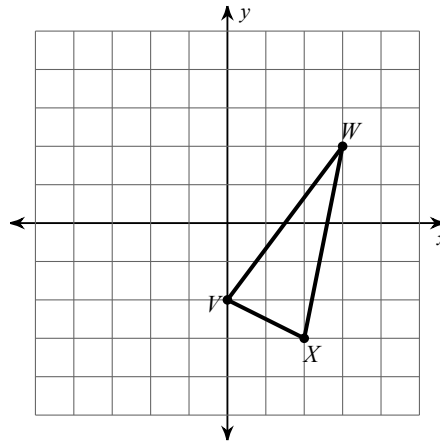
2) translation: 6 units right and 1 unit down



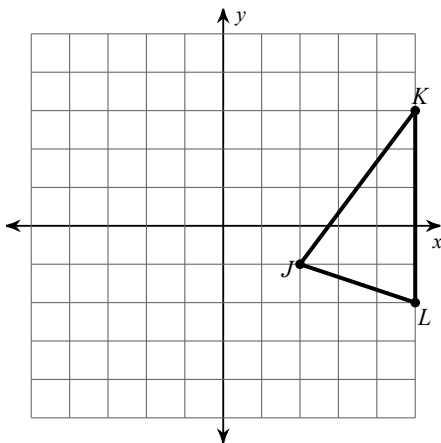
3) translation: $(x, y) \rightarrow (x - 4, y - 1)$



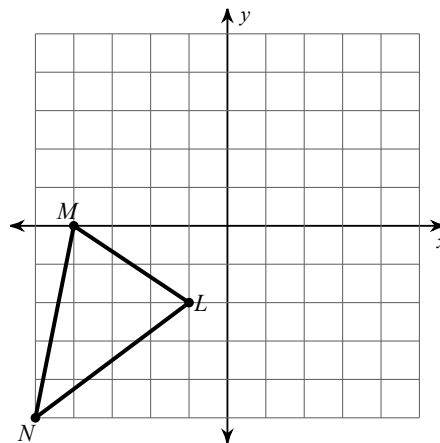
4) translation: $(x, y) \rightarrow (x + 2, y + 2)$



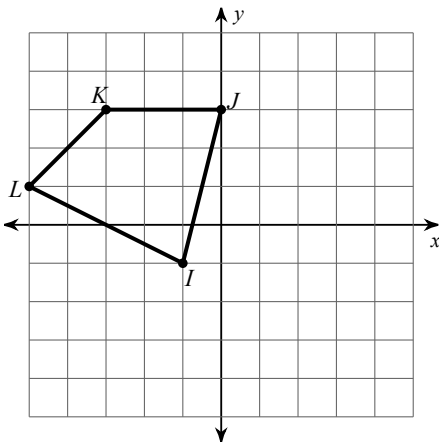
5) translation: $(x, y) \rightarrow (x - 1, y - 1)$



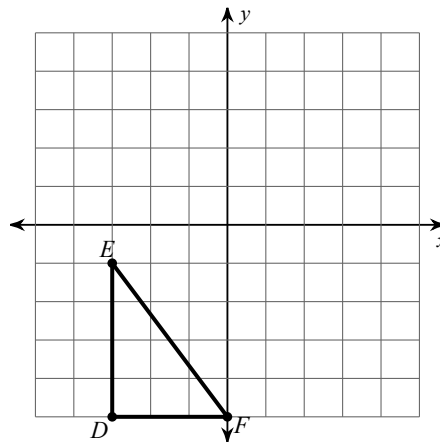
6) translation: $(x, y) \rightarrow (x + 4, y + 5)$



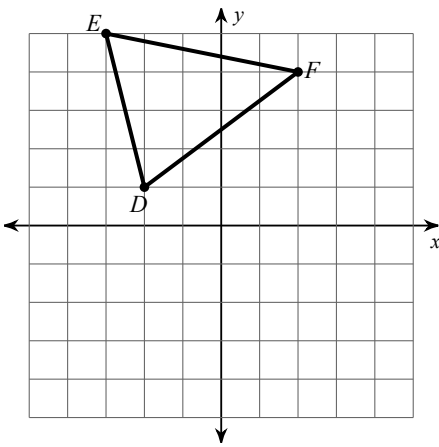
7) translation: $(2, -4)$



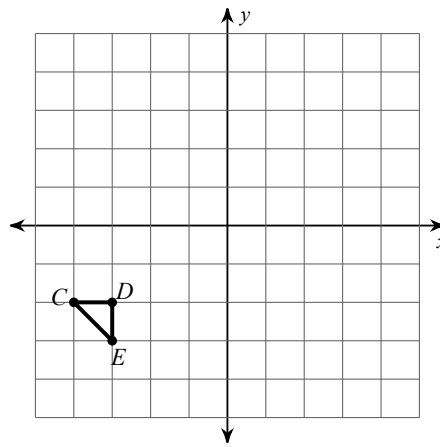
8) translation: $(1, 0)$



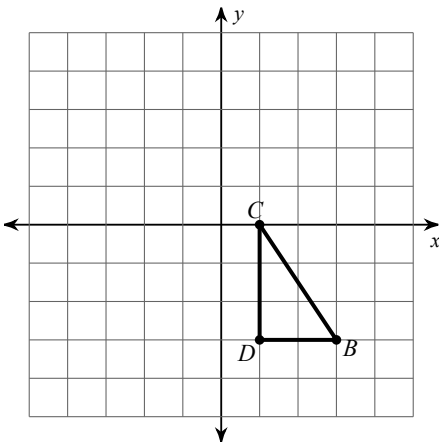
9) translation: $(1, -6)$



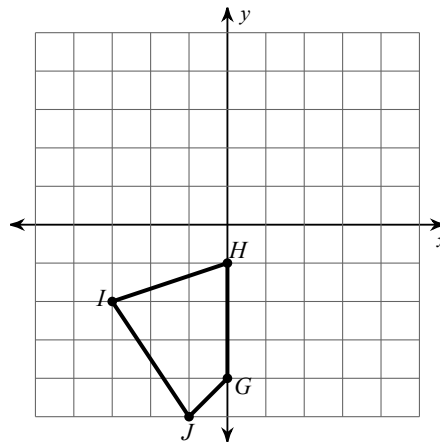
10) translation: $(7, 5)$



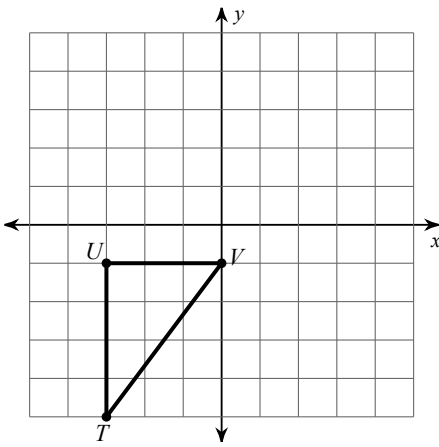
11) reflection across $y = -2$



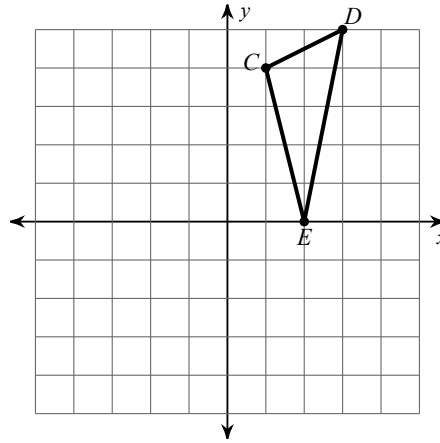
12) reflection across $y = -3$



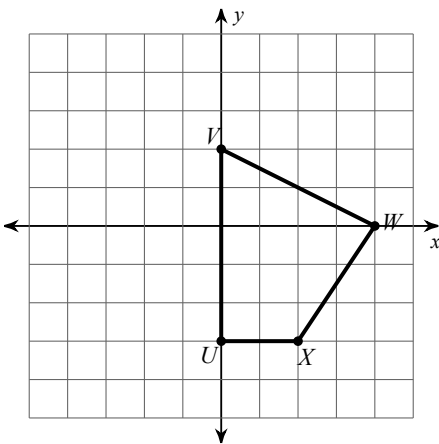
13) reflection across $y = x$



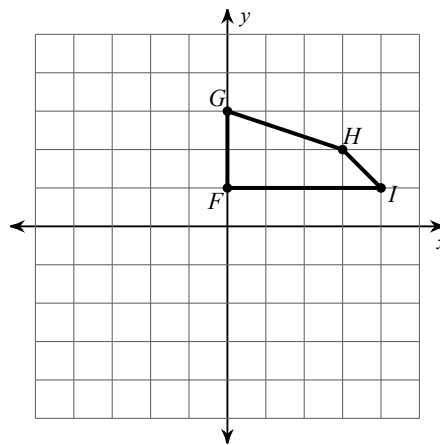
14) reflection across the x-axis



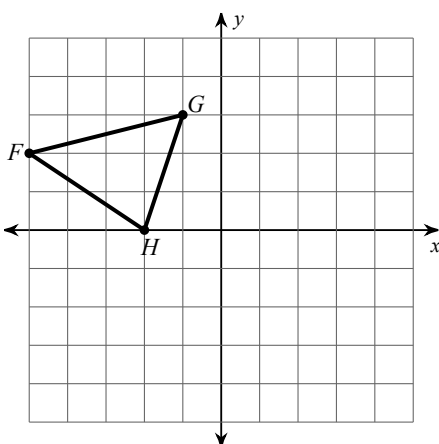
15) rotation 90° counterclockwise about the origin



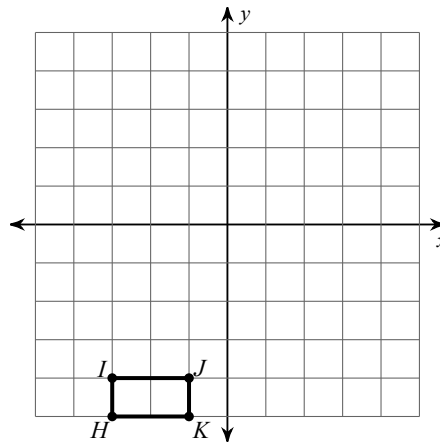
16) rotation 180° about the origin



17) rotation 90° counterclockwise about the origin

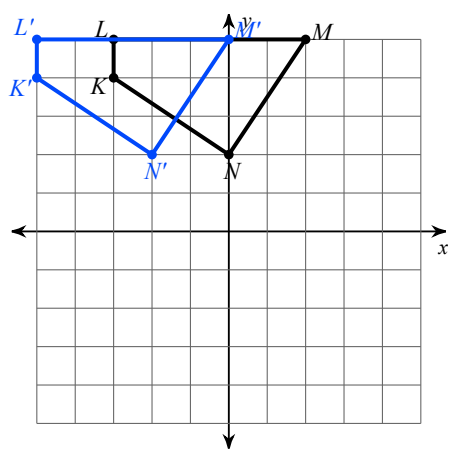


18) rotation 180° about the origin

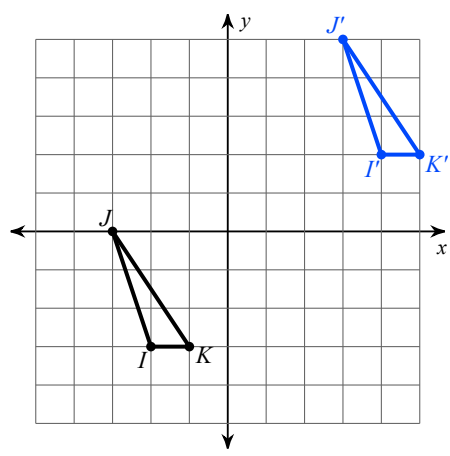


Write a rule to describe each transformation.

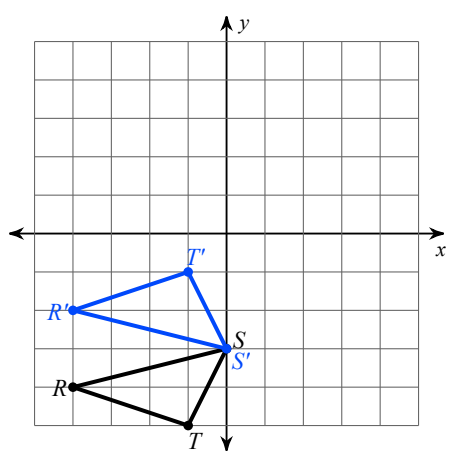
19)



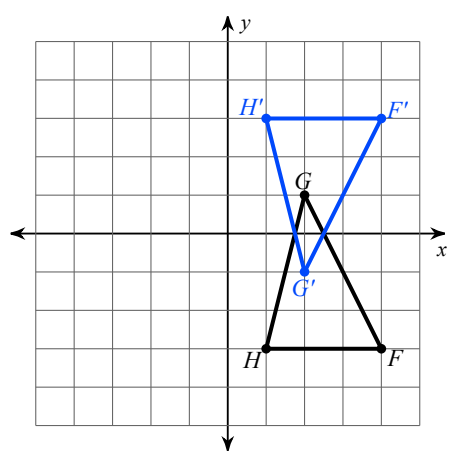
20)



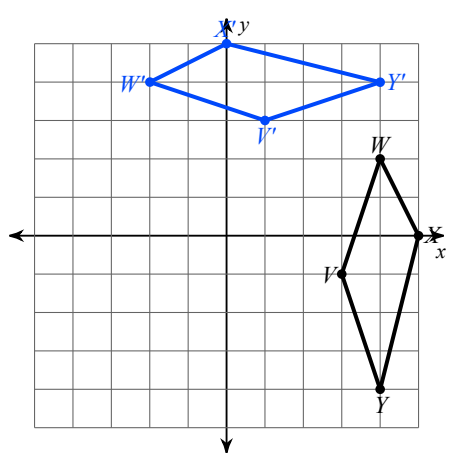
21)



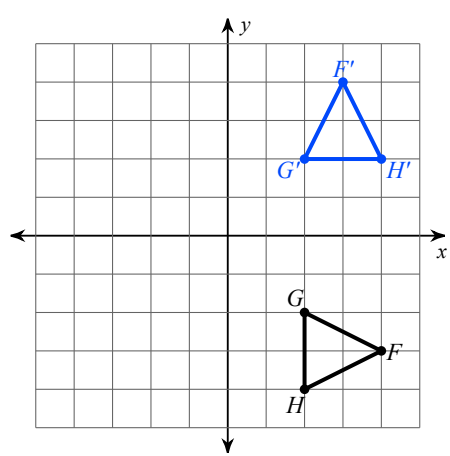
22)



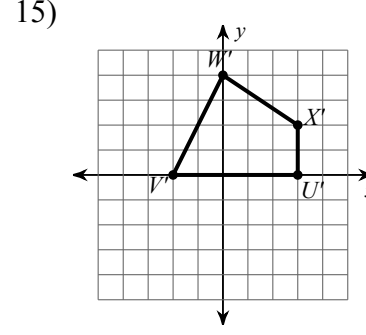
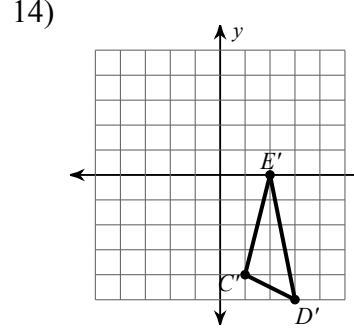
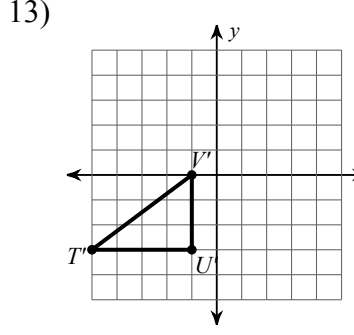
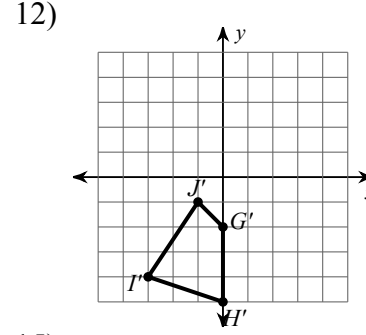
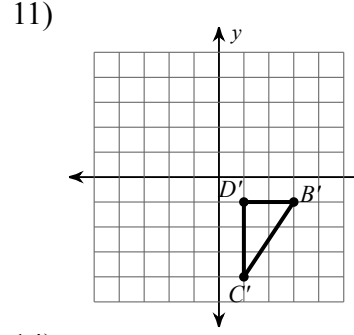
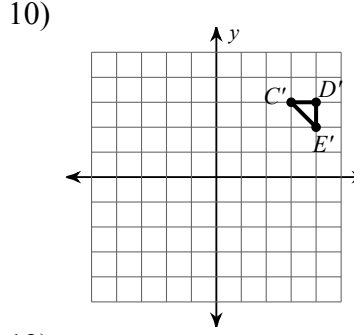
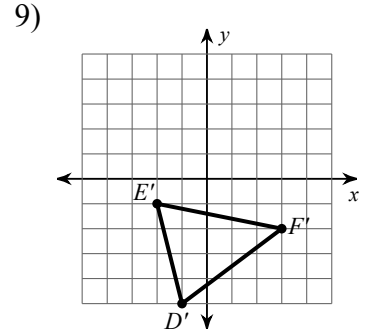
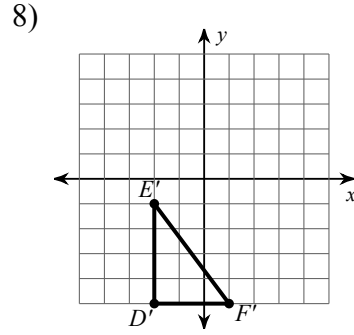
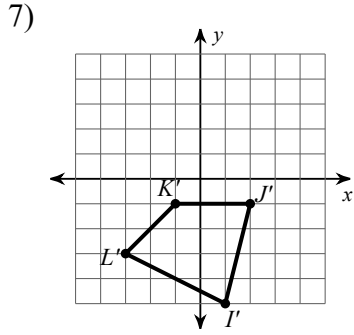
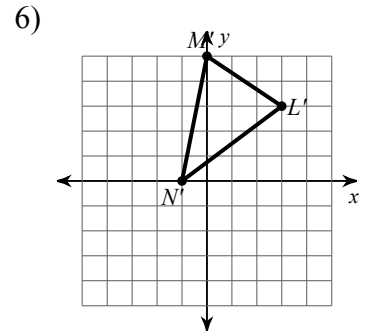
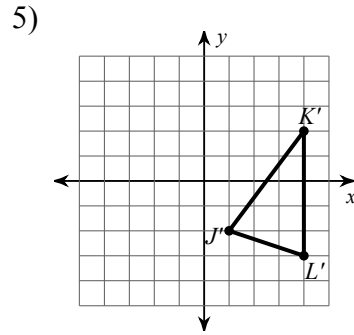
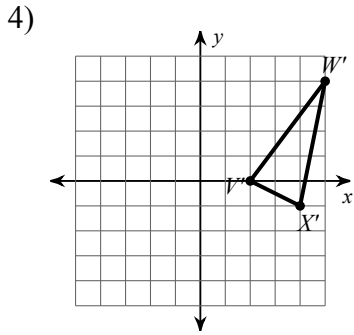
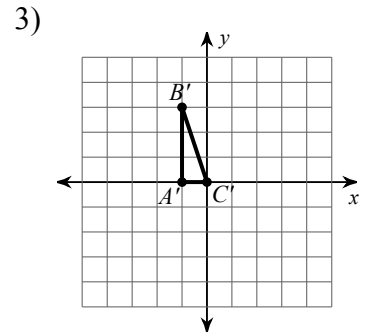
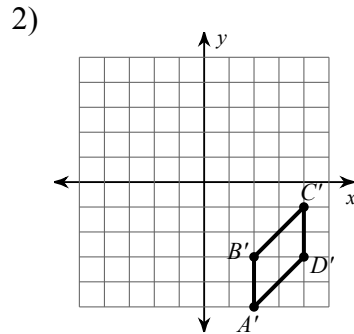
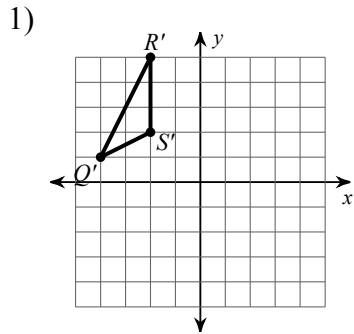
23)



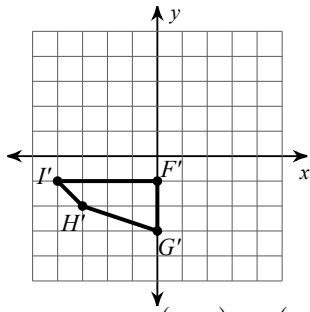
24)



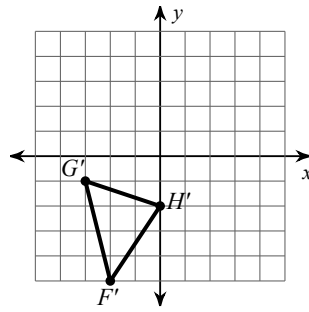
Answers to



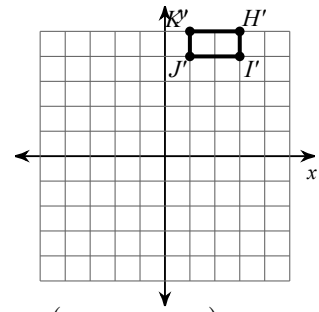
16)



17)



18)

19) translation: $(x, y) \rightarrow (x - 2, y)$ 21) reflection across $y = -3$ 23) rotation 90° counterclockwise about the origin20) translation: $(x, y) \rightarrow (x + 6, y + 5)$

22) reflection across the x-axis

24) rotation 90° counterclockwise about the origin