Geometry Y Name_____

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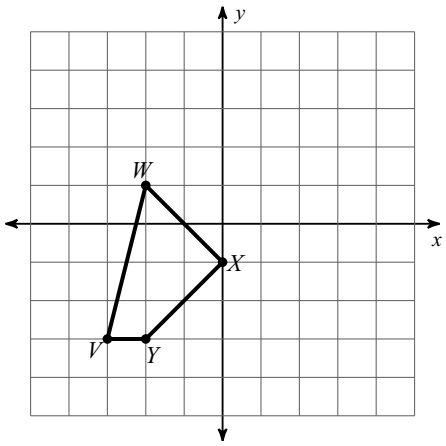
1-1 Translations

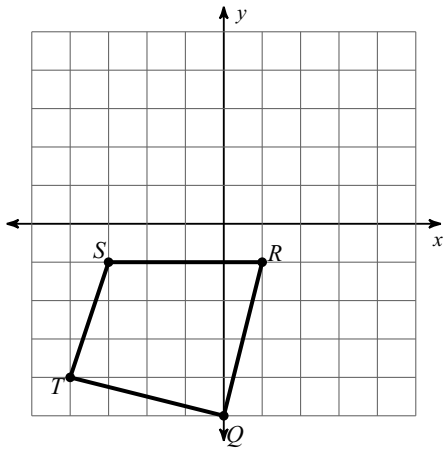
Date_____ Period____

Graph the image of the figure using the transformation given.

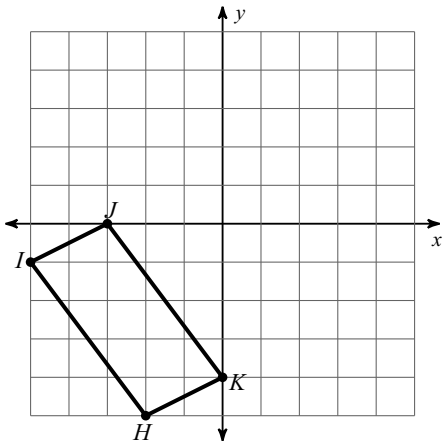
1) translation: 1 unit left and 3 units up



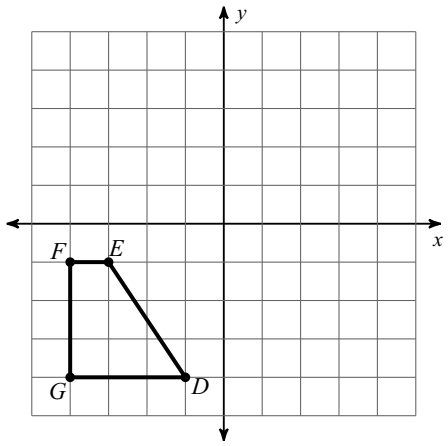
2) translation: 2 units right and 6 units up



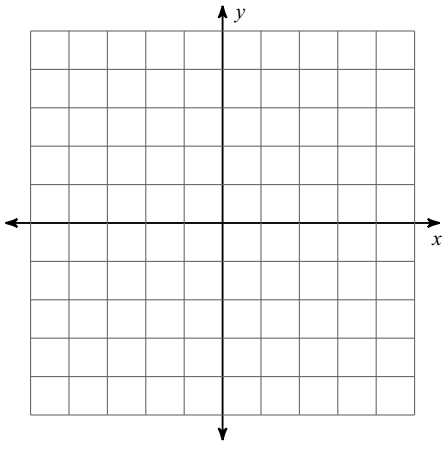
3) translation: $(x, y) \rightarrow (x + 1, y + 2)$



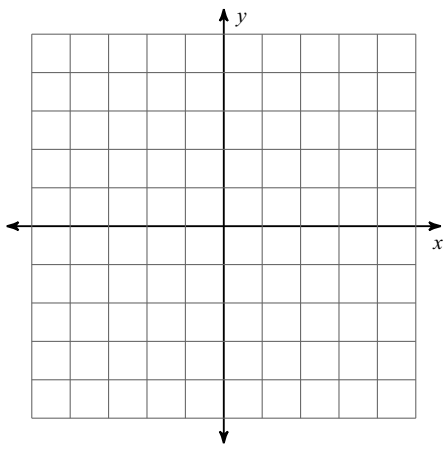
4) translation: $(x, y) \rightarrow (x + 1, y)$



5) translation: 6 units right and 8 units up
$W(-2, -5)$



6) translation: $(x, y) \rightarrow (x, y - 7)$
$J(0, 4)$



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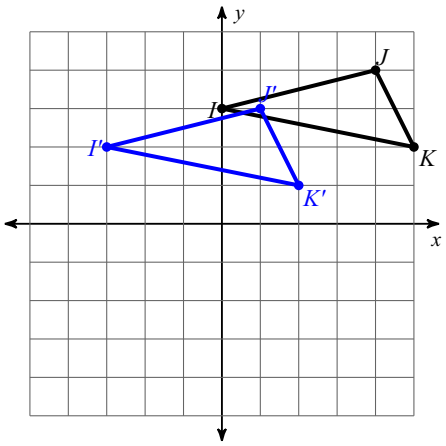
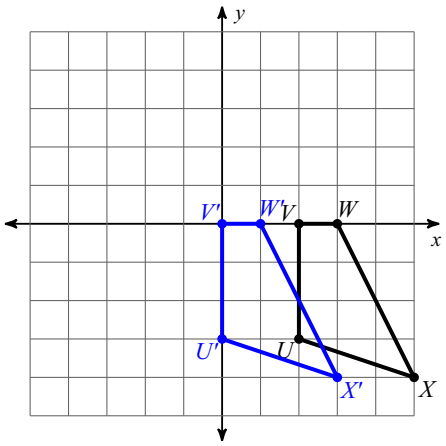
Write a rule to describe each transformation. Use right/left and up/down.

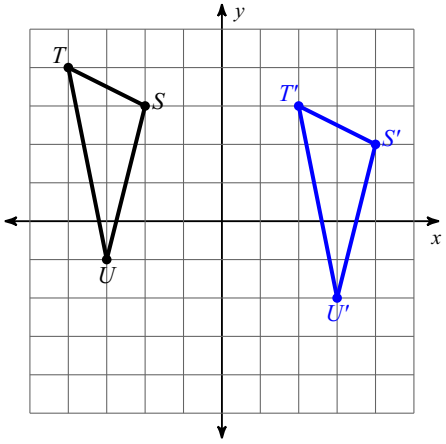
7)



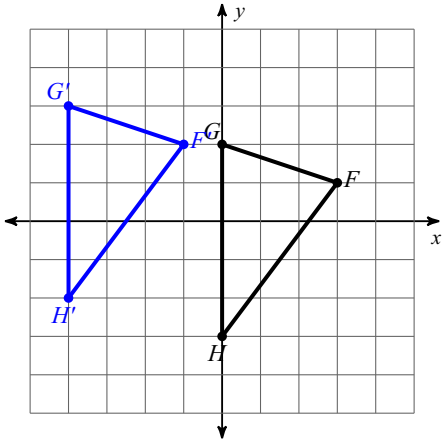
8)



9)



10)



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

11) translation: $(x, y) \rightarrow (x - 6, y + 5)$
$J(2, -5)$, $I(3, -2)$, $H(3, -5)$

12) translation: $(x, y) \rightarrow (x + 6, y - 2)$
$S(-5, 1)$, $R(-1, 4)$, $Q(-4, 0)$

13) translation: 3 units up
$W(-4, -4)$, $X(0, -1)$, $Y(0, -5)$

14) translation: 1 unit right
$J(-1, 0)$, $K(3, 3)$, $L(1, -2)$

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