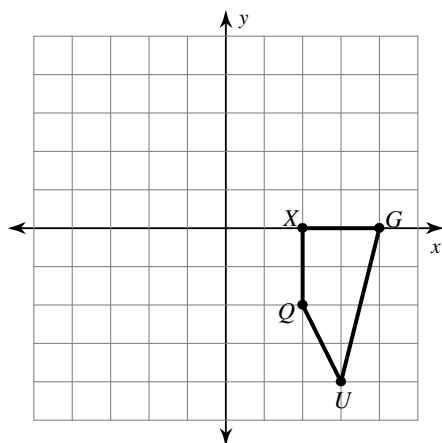


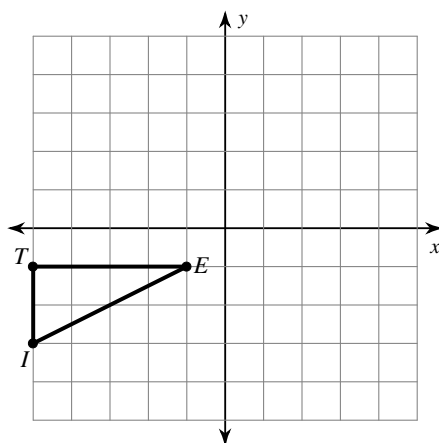
Name: _____

For 1 - 6, graph the image of the figure using the transformation given. Then label the vertices, and on a separate sheet of paper, write down the Pre-Image coordinates and the Image coordinates. Don't forget your "parentheses and commas" ... (,)

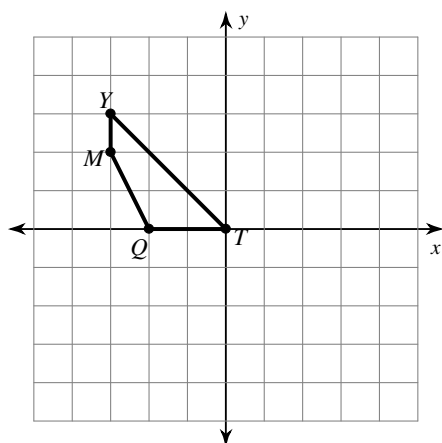
1) translation: 1 unit left



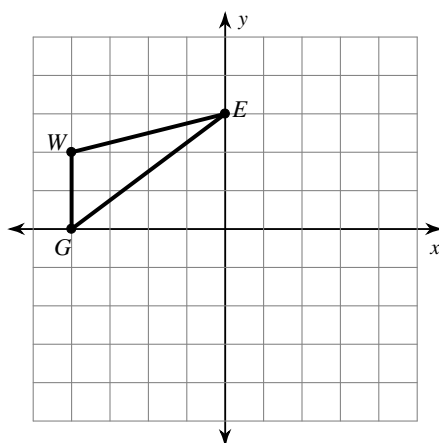
2) translation: 1 unit right and 2 units down



3) translation: 3 units right

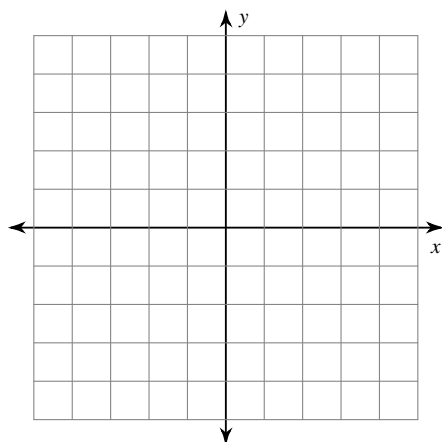


4) translation: 1 unit right and 2 units down



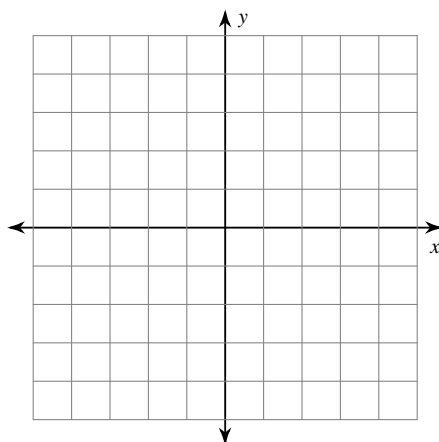
5) translation: 5 units up

$U(-3, -4)$, $M(-1, -1)$, $L(-2, -5)$



6) translation: 3 units up

$R(-4, -3)$, $D(-4, 0)$, $L(0, 0)$, $F(0, -3)$



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

7) translation: 2 units left and 1 unit down
 $Q(0, -1), D(-2, 2), V(2, 4), J(3, 0)$

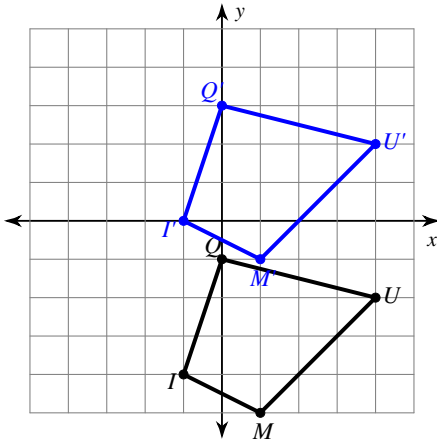
8) translation: 2 units down
 $D(-4, 1), A(-2, 5), S(-1, 4), N(-1, 2)$

9) translation: 4 units left and 4 units up
 $J(-1, -2), A(-1, 0), N(3, -3)$

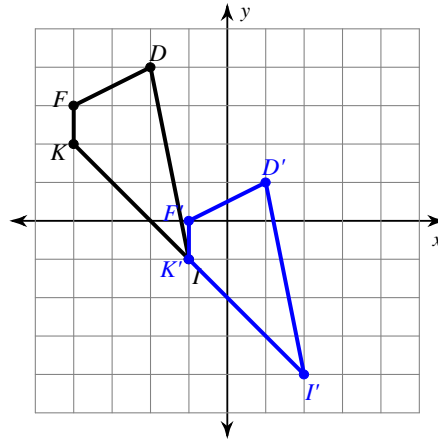
10) translation: 3 units right and 4 units up
 $Z(-4, -3), I(-2, -2), V(-2, -4)$

Write a rule to describe each transformation.

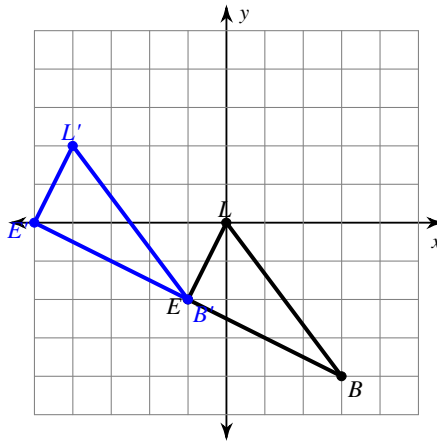
11)



12)



13)



14)

