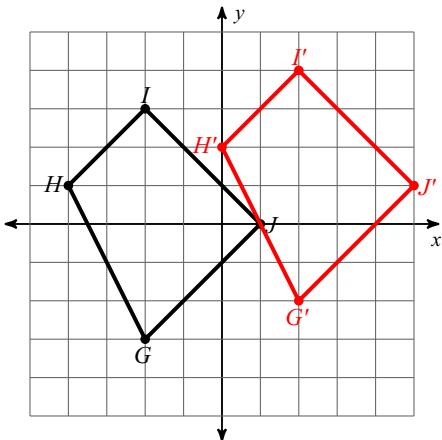


Translations HW#1

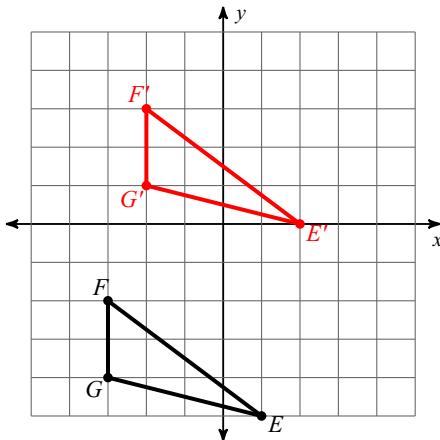
Date _____ Hour _____

Graph the image of the figure using the transformation given.

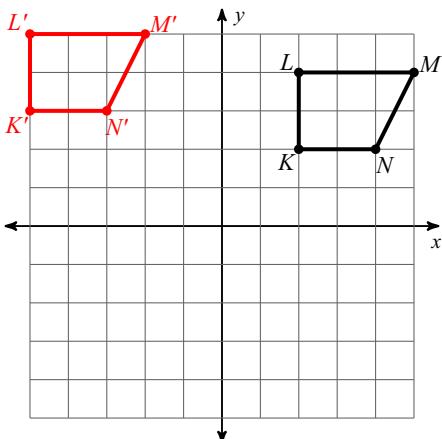
- 1) translation: 4 units right and 1 unit up



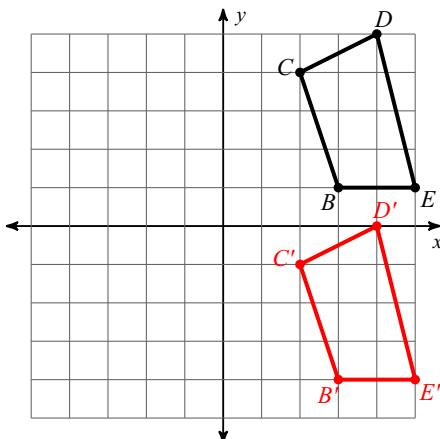
- 2) translation: 1 unit right and 5 units up



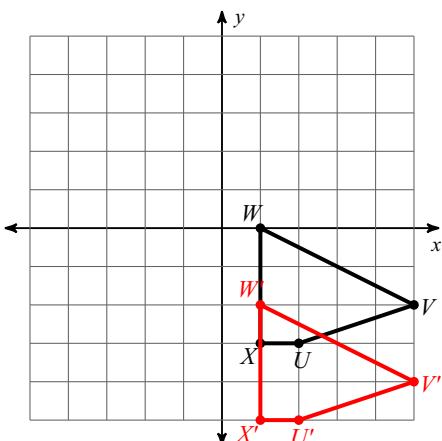
- 3) translation:
- $(x, y) \rightarrow (x - 7, y + 1)$



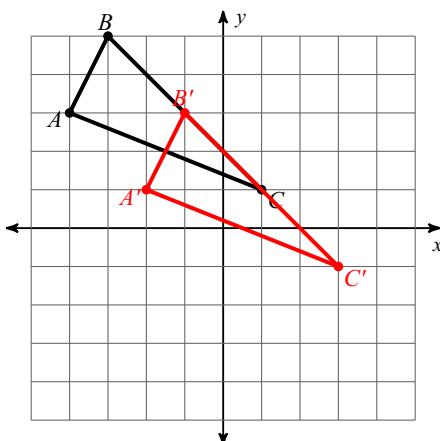
- 4) translation:
- $(x, y) \rightarrow (x, y - 5)$



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



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



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

7) translation: $(x, y) \rightarrow (x - 4, y + 2)$
 $W(3, -1)$

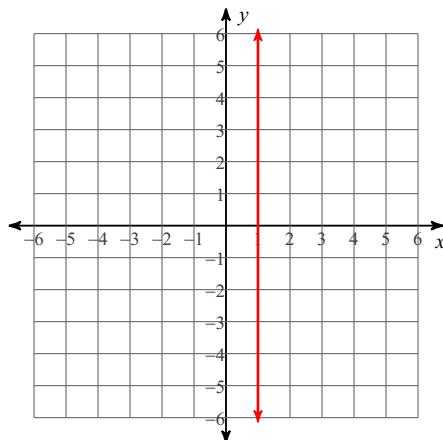
- A) $W'(-3, 1)$ B) $W'(2, 4)$
C) $W'(3, 1)$ *D) $W'(-1, 1)$

8) translation: $(x, y) \rightarrow (x - 1, y - 2)$
 $H(0, 0)$

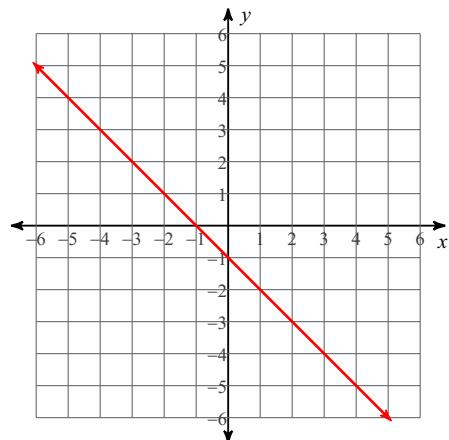
- A) $H'(-2, 5)$ B) $H'(-1, 4)$
C) $H'(-4, -5)$ *D) $H'(-1, -2)$

Sketch the graph of each line.

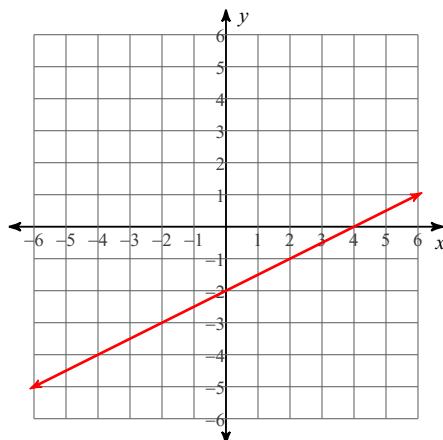
9) $x = 1$



10) $x + y = -1$



11) $x - 2y = 4$



12) $2x - 3y = -3$

