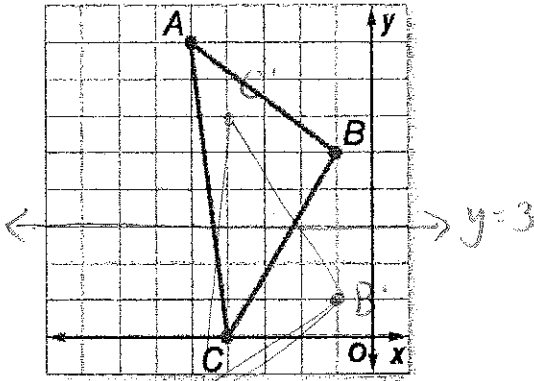


Key

9-Weeks Review : Chapter 9, Transformations

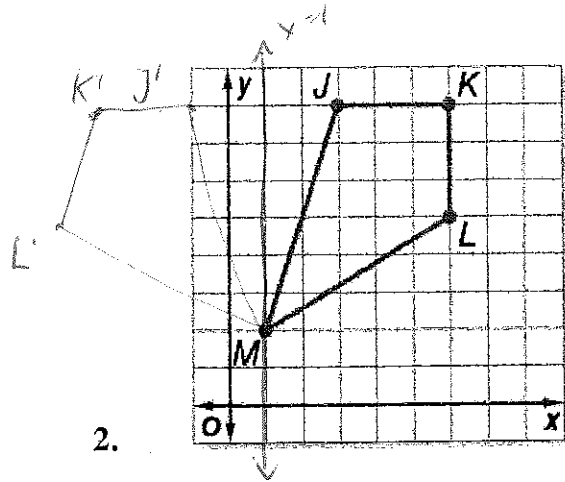
Graph the image of each figure in the given line.

1.



$\triangle ABC; y = 3$

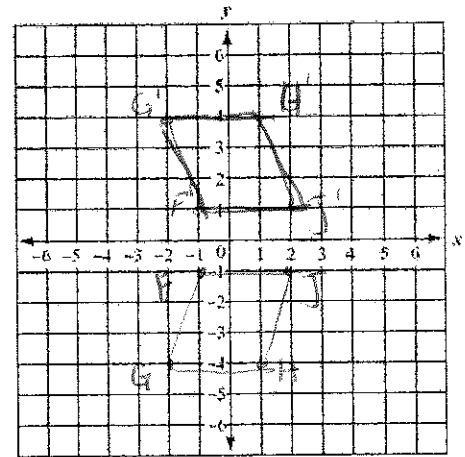
2.



$JKLM; x = 1$

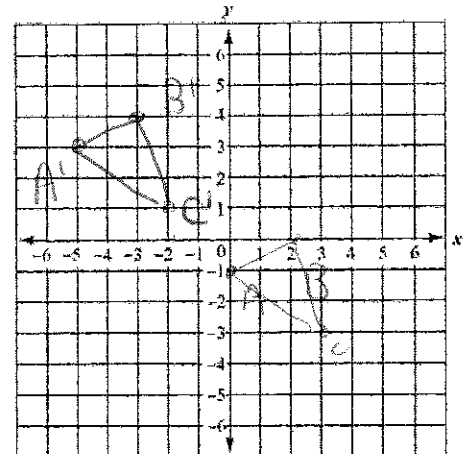
Graph each figure and its image under the given transformation.

3. Parallelogram  $FGHJ$  with vertices  $F(-1, -1)$ ,  $G(-2, -4)$ ,  $H(1, -4)$ , and  $J(2, -1)$  in the  $x$ -axis.

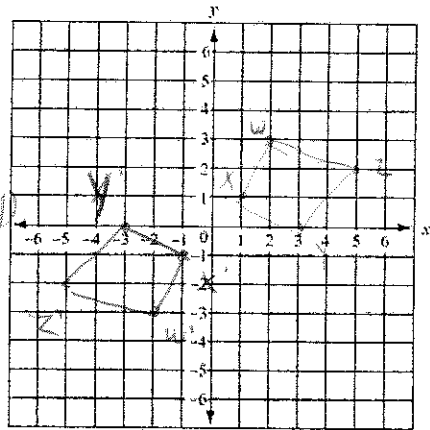


4.  $\triangle ABC$  with vertices  $A(0, -1)$ ,  $B(2, 0)$ ,  $C(3, -3)$ ;  
 $(x, y) \rightarrow (x - 5, y + 4)$

left 5  
up 4



5. Quadrilateral WXYZ with vertices  
 $W(2, 3), X(1, 1), Y(3, 0), Z(5, 2)$ ;  $180^\circ$   
 about the origin.



$W'(-2, -3)$   
 $X'(-1, -1)$   
 $Y'(-3, 0)$   
 $Z'(-5, -2)$

Give the coordinates of the image.

6. Point  $N$  has coordinates  $(4, -3)$ . What will the coordinates of its image be after a reflection across the  $y$ -axis?



7. Given point  $R(-4, 3)$ , what rotation would result in  $R'(-3, 4)$ ?

$xy$                        $-y-x$   
 No rotation possible

8. Draw all lines of symmetry.  
 How many lines of symmetry does a pentagon have?

5 lines of symmetry.

