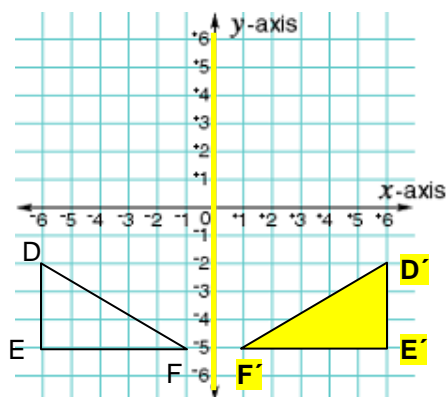




### Reflections and Symmetry (page 3)

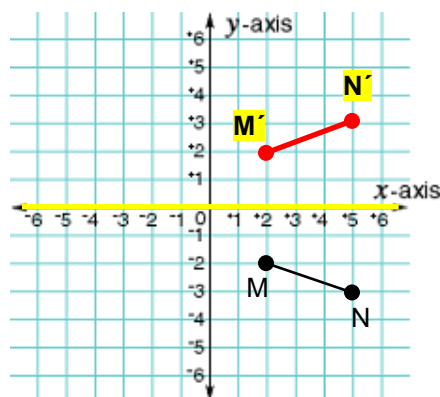
1) Describe a reflection in one word. **FLIP**

2) What are the coordinates of  $D'$ ,  $E'$ , and  $F'$  after  $D$ ,  $E$ , and  $F$  are reflected across the  $y$ -axis? Draw the image.



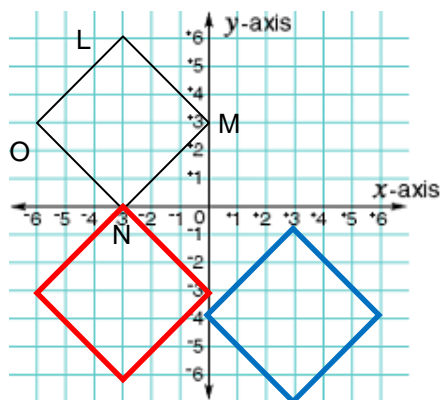
$D(-6, -2) \rightarrow D'(6, -2)$   
 $E(-6, -5) \rightarrow E'(6, -5)$   
 $F(-1, -5) \rightarrow F'(1, -5)$

3) What are the coordinates of  $M'$  and  $N'$  after  $\overline{MN}$  is reflected across the  $x$ -axis? Draw the image.



$M(2, -2) \rightarrow M'(2, 2)$   
 $N(5, -3) \rightarrow N'(5, 3)$

4) Reflect the polygon in the  $x$ -axis, then translate using  $(x, y) \rightarrow (x + 6, y - 1)$ .



5) Tell how many lines of symmetry the square below has. Draw them.

**4 lines**

