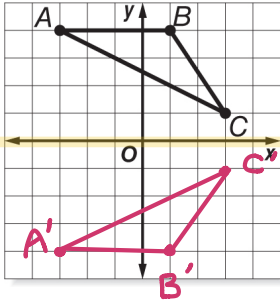


# M1T1 – Lesson 4

## Reflections Skills Practice

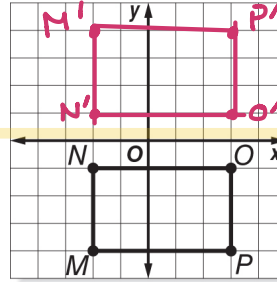
Graph the figure after a reflection over the  $x$ -axis. Then find the coordinates of the reflected image. (Label!)

1. triangle  $ABC$  with vertices  $A(-3, 4)$ ,  $B(1, 4)$ , and  $C(3, 1)$



$$\begin{aligned} A' &(-3, -4) \\ B' &(1, -4) \\ C' &(3, -1) \end{aligned}$$

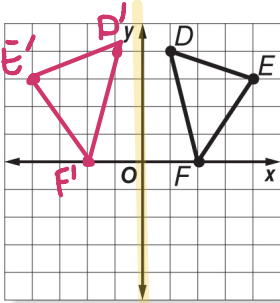
2. rectangle  $MNOP$  with vertices  $M(-2, -4)$ ,  $N(-2, -1)$ ,  $O(3, -1)$ , and  $P(3, -4)$



$$\begin{aligned} M' &(-2, 4) \\ P' &(3, 4) \\ N' &(-2, 1) \\ O' &(3, 1) \end{aligned}$$

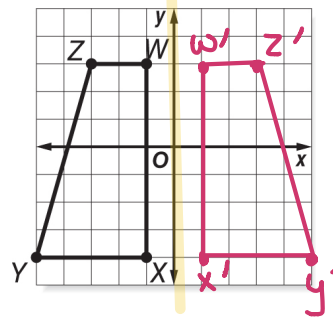
Graph the figure after a reflection over the  $y$ -axis. Then find the coordinates of the reflected image. (Label!)

3. triangle  $DEF$  with vertices  $D(1, 4)$ ,  $E(4, 3)$ , and  $F(2, 0)$



$$\begin{aligned} D' &(-1, 4) \\ E' &(-4, 3) \\ F' &(-2, 0) \end{aligned}$$

4. trapezoid  $WXYZ$  with vertices  $W(-1, 3)$ ,  $X(-1, -4)$ ,  $Y(-5, -4)$ , and  $Z(-3, 3)$



$$\begin{aligned} X' &(1, -4) \\ Y' &(5, -4) \\ W' &(1, 3) \\ Z' &(3, 3) \end{aligned}$$

For Exercises 5–8, use the following information.

Triangle  $JKL$  has vertices  $J(-3, 1)$ ,  $K(-1, 3)$ , and  $L(-4, 2)$ .

- What are the coordinates of the image of point  $J$  after a reflection over the  $y$ -axis?  $(3, 1)$
- What are the coordinates of the image of point  $K$  after a reflection over the  $y$ -axis?  $(1, 3)$
- What are the coordinates of the image of point  $L$  after a reflection over the  $y$ -axis?  $(4, 2)$
- Graph triangle  $JKL$  after a reflection over the  $y$ -axis.

