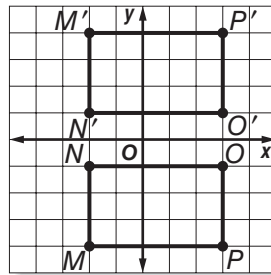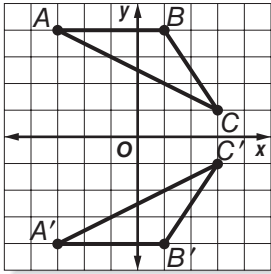# Lesson 2 Skills Practice

Reflections

Graph the figure and its reflection over the *x*-axis. Then find the coordinates of the reflected image.

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

$A'(-3, -4)$, $B'(1, -4)$, and $C'(3, -1)$

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

$M'(-2, 4)$, $N'(-2, 1)$, $O'(3, 1)$, $P'(3, 4)$

Graph the figure and its reflection over the *y*-axis. Then find the coordinates of the reflected image.

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

$D'(-1, 4)$, $E'(-4, 3)$, and $F'(-2, 0)$

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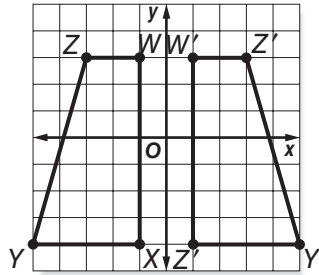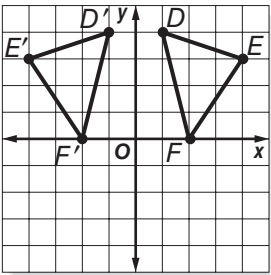
$W'(1, 3)$, $X'(1, -4)$, $Y'(5, -4)$, $Z'(3, 3)$

For Exercises 5–8, use the following information.

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

5. What are the coordinates of the image of point *J* after a reflection over the *y*-axis? **$J'(3, 1)$**

6. What are the coordinates of the image of point *K* after a reflection over the *y*-axis? **$K'(1, 3)$**

7. What are the coordinates of the image of point *L* after a reflection over the *y*-axis? **$L'(4, 2)$**

8. Graph triangle *JKL* and its image after a reflection over the *y*-axis.