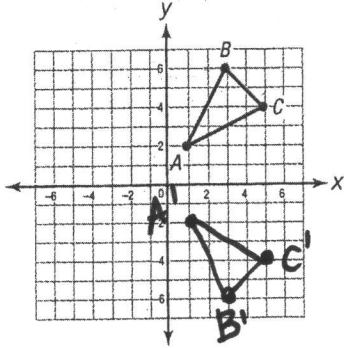


Practice

Draw each reflected image as described and name its vertices. Identify the coordinates of the vertices of the image.

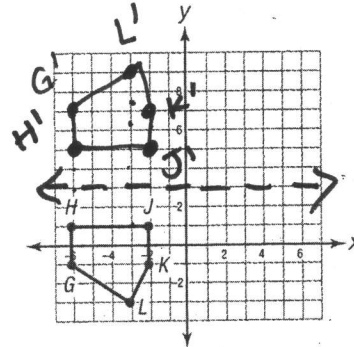
1. Reflect $\triangle ABC$ across the x-axis.



$A'(1, -2)$ $B'(3, -5)$ $C'(5, -4)$

REMEMBER When a point is reflected across the x-axis, the sign of its y-coordinate changes.

2. Reflect pentagon $GHJKL$ across the line $y = 3$.



$G'(-6, 7)$ $H'(-6, 5)$ $J'(-2, 5)$
 $K'(-2, 1)$ $L'(-3, 9)$

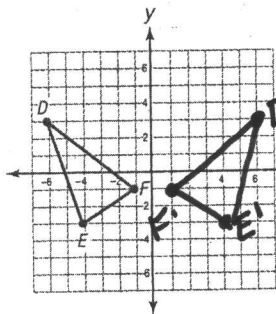
Fill in each blank with an appropriate word or phrase.

- A reflection results in two figures that look like mirror images of each other.
- Lines that meet and form right angles are called perpendicular lines.
- A point and its reflection are each the same distance from line of reflection.
- The path that a point takes across the line of reflection is perpendicular the line of reflection.

Use the given function to transform $\triangle DEF$. Then describe the transformation in words.

7. $R(x, y) = (-x, y)$

$D(-6, 3)$
 $E(-4, -3)$
 $F(-1, -1)$

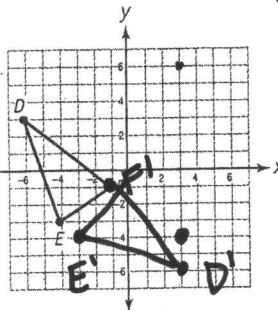


$D'(6, 3)$
 $E'(4, -3)$
 $F'(1, -1)$

reflect across y-axis

8. $R(x, y) = (y, x)$

$D(-6, 3)$
 $E(-4, -3)$
 $F(-1, -1)$



$D'(3, 6)$
 $E'(-3, -4)$
 $F'(-1, -1)$

reflect across $y=x$