

In Exercises 1–3:

a) Find the coordinates of the image of  $\triangle ABC$  after a reflection over the given line

b) Graph  $\triangle ABC$  and its image.

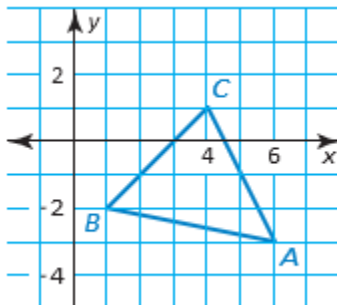
1.  $A(0, 2), B(1, -3), C(2, 4)$ ;  $x$ -axis

2.  $A(-2, -4), B(6, 2), C(3, -5)$ ;  $y$ -axis

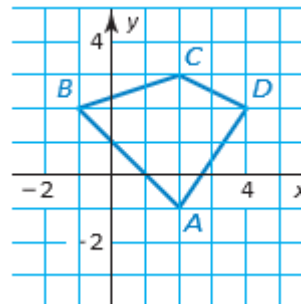
3.  $A(4, -1), B(3, 8), C(-1, 1)$ ;  $x$  - axis

In Exercises 4 - 7, graph the image of the polygon after a reflection over the given line (Draw the line first).

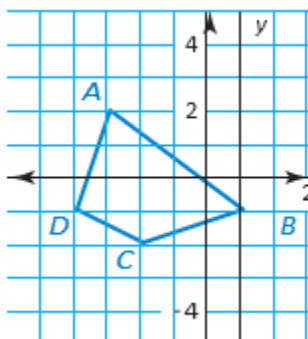
4.  $y = x$



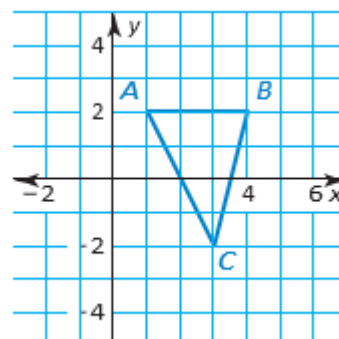
5.  $y = x$



6.  $y = -x$

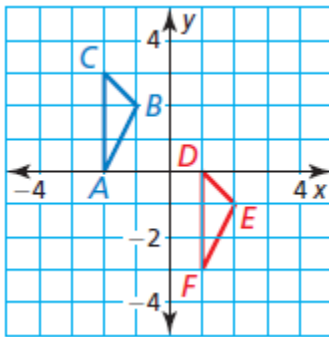


7.  $y = -x$

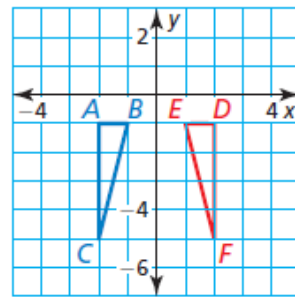


For 8 - 11 Determine whether the coordinate plane shows a reflection in the  $x$ -axis,  $y$ -axis, or *neither*.

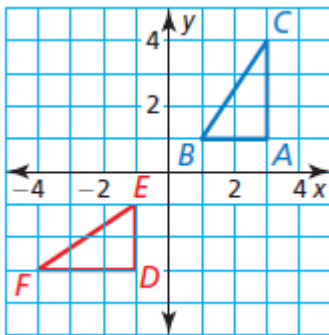
8.



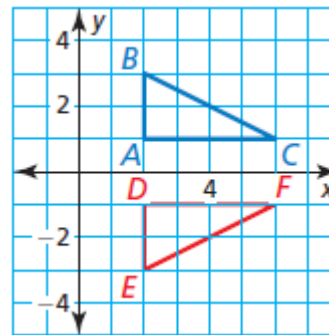
9.



10.

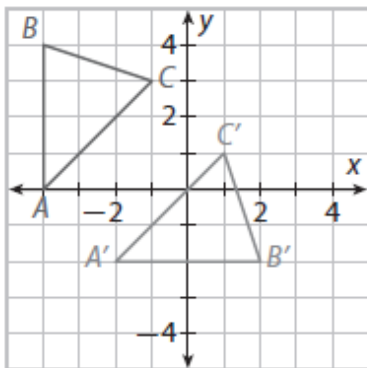


11.

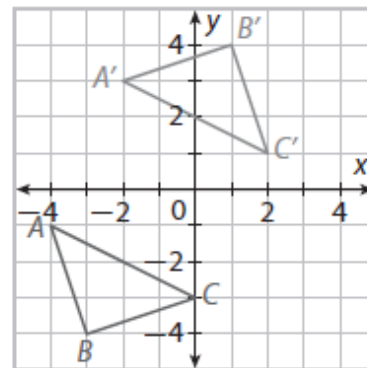


Given that  $\triangle A'B'C'$  is the image of  $\triangle ABC$  under a reflection, draw the line of reflection.

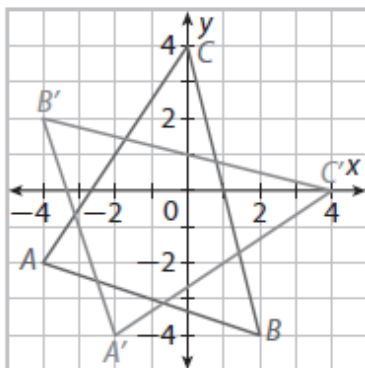
13.



14.



15.



16.

