

Reflections

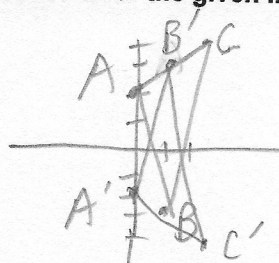
Practice and Problem Solving: A/B

In Exercises 1-3:

- Find the coordinates of the image of $\triangle ABC$ after a reflection over the given line
- Graph $\triangle ABC$ and its image.

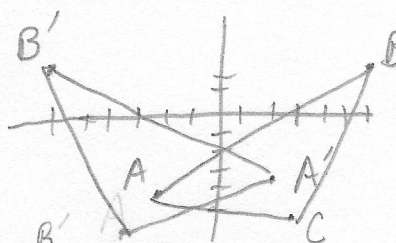
1. $A(0, 2), B(1, -3), C(2, 4); x\text{-axis}$

$A'(0, -2), B'(1, 3), C'(2, -4)$



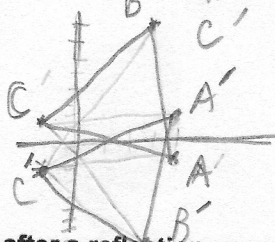
2. $A(-2, -4), B(6, 2), C(3, -5); y\text{-axis}$

$A'(2, -4), B'(-6, 2), C'(-3, -5)$



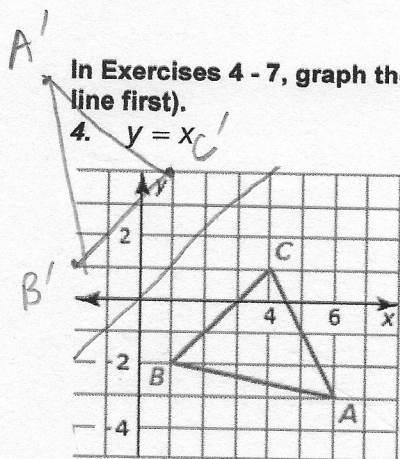
3. $A(4, -1), B(3, 8), C(-1, 1); x\text{-axis}$

$A'(4, 1), B'(3, -8), C'(-1, -1)$

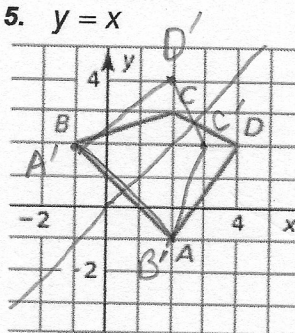


In Exercises 4 - 7, graph the image of the polygon after a reflection over the given line (Draw the line first).

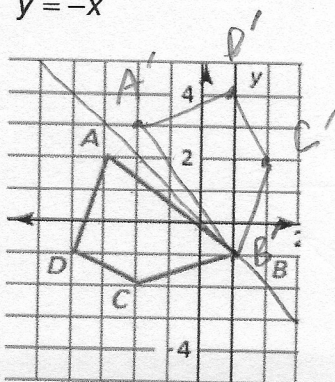
4. $y = x$



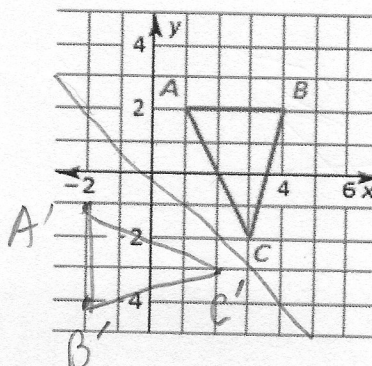
5. $y = x$



6. $y = -x$

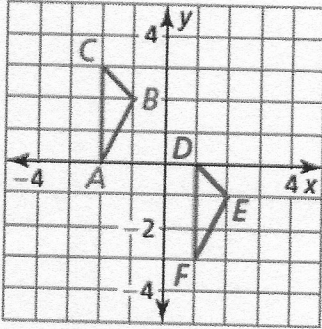


7. $y = -x$



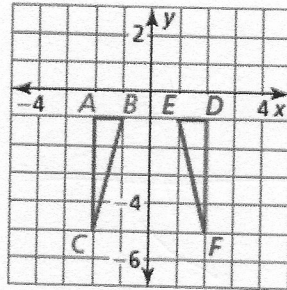
For 8 - 11 Determine whether the coordinate plane shows a reflection in the x -axis, y -axis, or neither.

8.



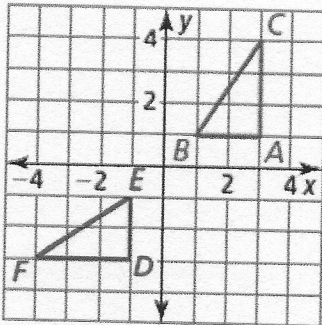
neither

9.



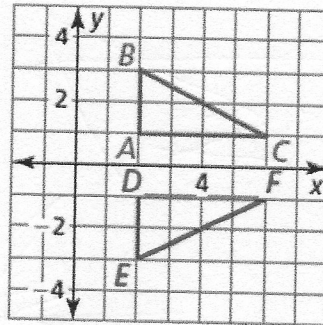
y -axis

10.



neither

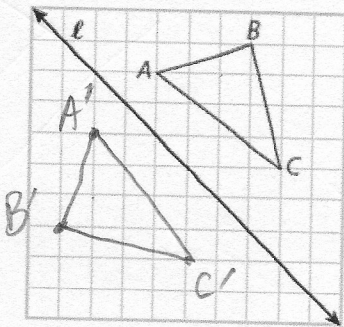
11.



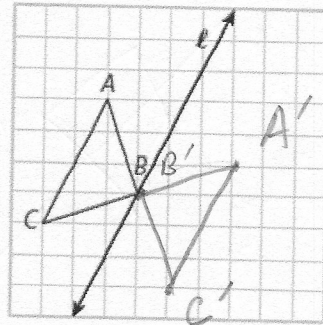
x -axis

Draw the image of $\triangle ABC$ after a reflection across line ℓ .

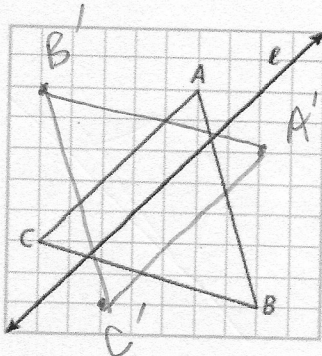
5.



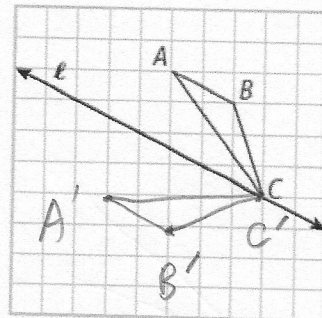
6.



7.

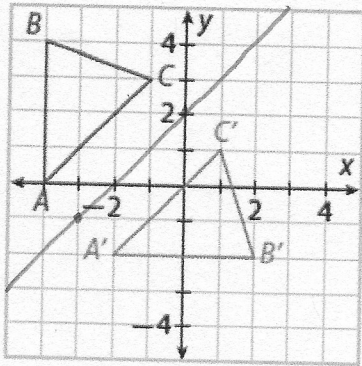


8.

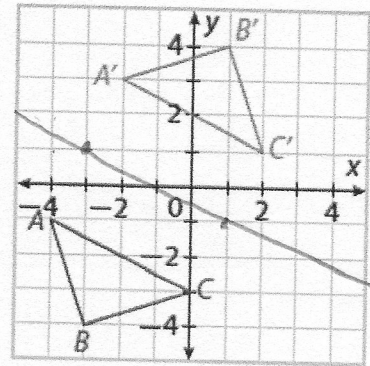


Given that $\triangle A'B'C'$ is the image of $\triangle ABC$ under a reflection, draw the line of reflection.

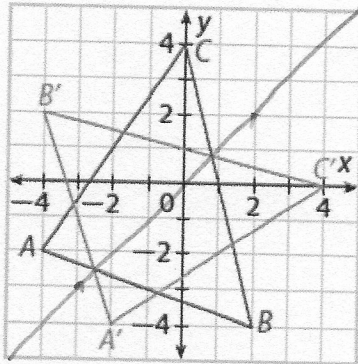
13.



14.



15.



16.

