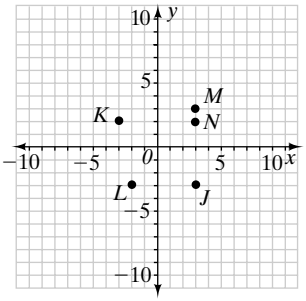
Name _____ Class _____ Date _____

Practice 10-6

Line Symmetry and Reflections

Use the graph at the right for Exercises 1–3.



1. For which two points is the x-axis a line of reflection?

   _____

2. For which two points is the y-axis a line of reflection?

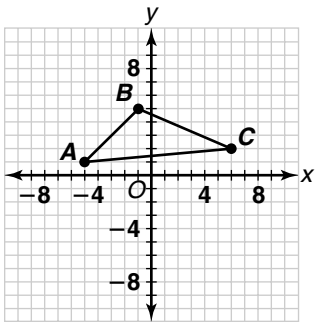
   _____

3. Points L and J are not reflections across the y-axis. Why not?

   _____

   _____

△ $A'B'C'$ is a reflection of △ ABC over the x-axis. Draw △ $A'B'C'$ and complete each statement.

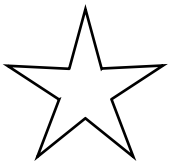


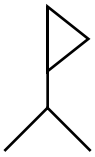
4. $A(-5, 1) \rightarrow A'(x, y)$ _____

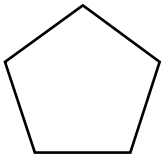
5. $B(-1, 5) \rightarrow B'(x, y)$ _____

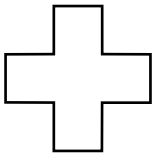
6. $C(6, 2) \rightarrow C'(x, y)$ _____

Draw the lines of symmetry for each figure. If there are no lines of symmetry, write *none*.

7. 

8. 

9. 

10. 

Graph each point and its reflection across the indicated axis. Write the coordinates of the reflected point.

11. $V(-3, 4)$ across the y-axis _____

12. $W(-4, -2)$ across the x-axis _____

13. $X(2, 2)$ across the x-axis _____

14. $Y(0, 3)$ across the x-axis _____

15. $Z(4, -6)$ across the y-axis _____