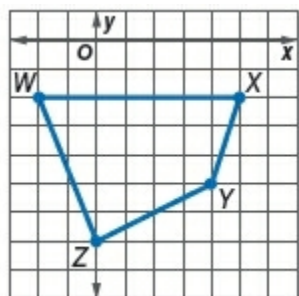
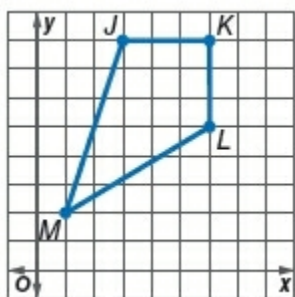
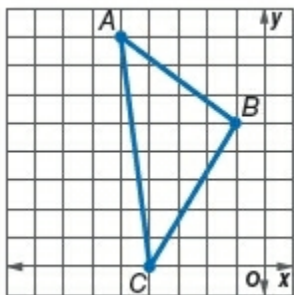


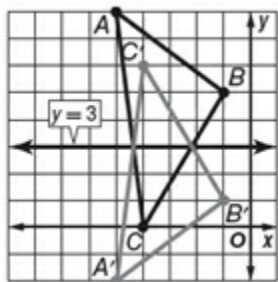
3-1 Reflections

Graph each figure and its image in the given line.



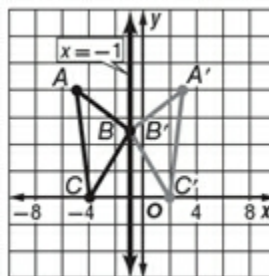
18. $\triangle ABC$; $y = 3$

ANSWER:



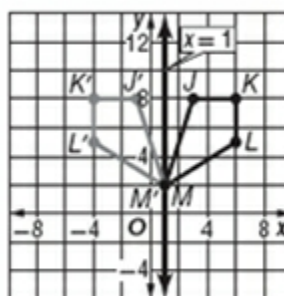
19. $\triangle ABC$; $x = -1$

ANSWER:



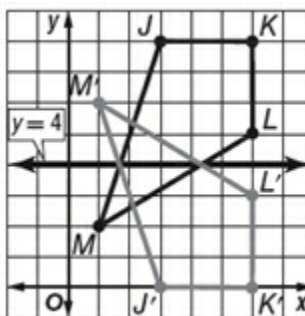
20. $JKLM$; $x = 1$

ANSWER:



21. $JKLM$; $y = 4$

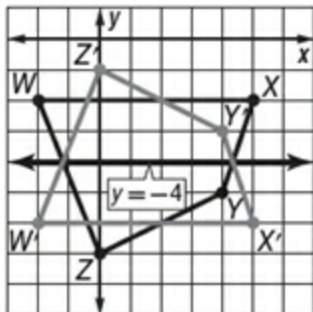
ANSWER:



3-1 Reflections

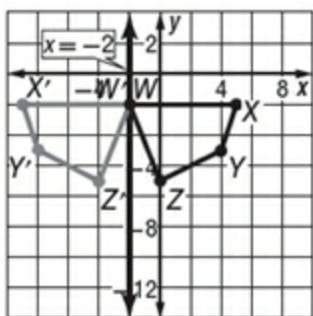
22. $WXYZ$; $y = -4$

ANSWER:



23. $WXYZ$; $x = -2$

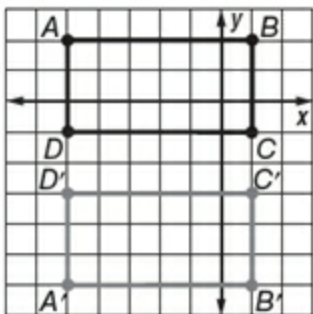
ANSWER:



STRUCTURE Graph each figure and its image under the given reflection.

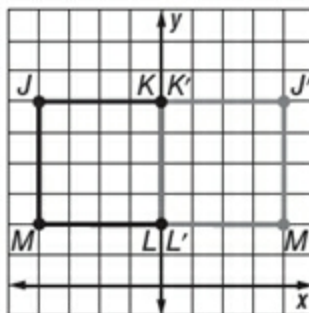
24. rectangle $ABCD$ with vertices $A(-5, 2)$, $B(1, 2)$, $C(1, -1)$, and $D(-5, -1)$ in the line $y = -2$

ANSWER:



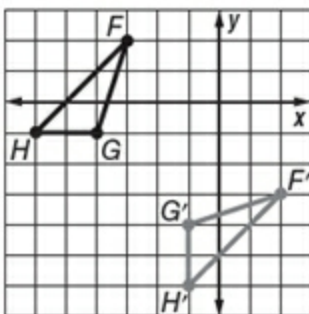
25. square $JKLM$ with vertices $J(-4, 6)$, $K(0, 6)$, $L(0, 2)$, and $M(-4, 2)$ in the y -axis

ANSWER:



26. $\triangle FGH$ with vertices $F(-3, 2)$, $G(-4, -1)$, and $H(-6, -1)$ in the line $y = x$

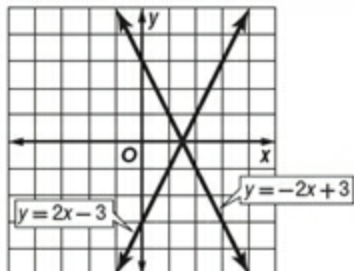
ANSWER:



ALGEBRA Graph the line $y = 2x - 3$ and its reflected image in the given line. What is the equation of the reflected image?

36. x -axis

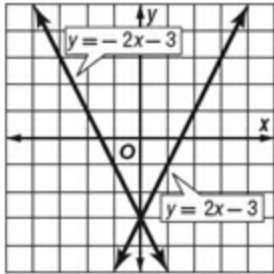
ANSWER:



3-1 Reflections

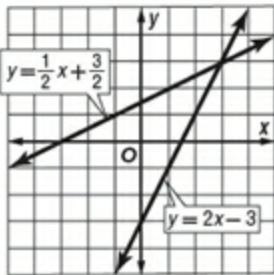
37. y -axis

ANSWER:



38. $y = x$

ANSWER:



50. **PRECISION** The image of a point reflected in a line is *always*, *sometimes*, or *never* located on the other side of the line of reflection.

ANSWER:

Sometimes; if the point is located on the line of reflection, then the point will remain in its same location.

58. Kyle performs a reflection and finds that every point on the x -axis is mapped to itself. Which of the following could be Kyle's reflection?

- A $(x, y) \rightarrow (x, -y)$
- B $(x, y) \rightarrow (y, x)$
- C $(x, y) \rightarrow (-x, y)$
- D $(x, y) \rightarrow (x + 4, y)$

ANSWER:

A