

Name

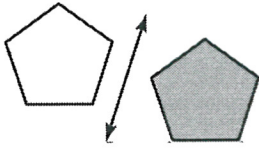
ANSWERS

Date

2.3 – Reflections

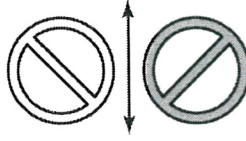
Tell whether the right figure is a reflection of the non-shaded figure. Explain.

1)



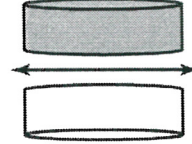
No. The image is not a mirror image across the line of reflection

2)



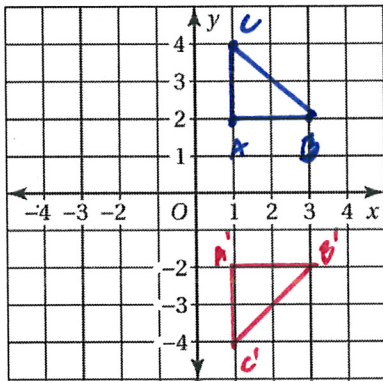
Yes. It's a mirror image.

3)

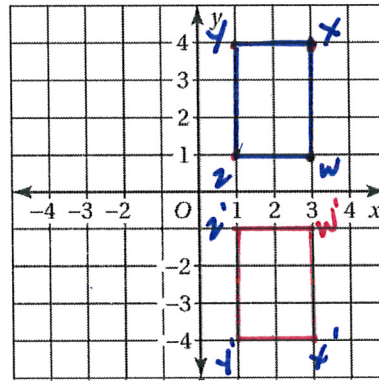


Yes. It's a mirror image

Draw the figure and its reflection in the x -axis. Identify the coordinates of the image.

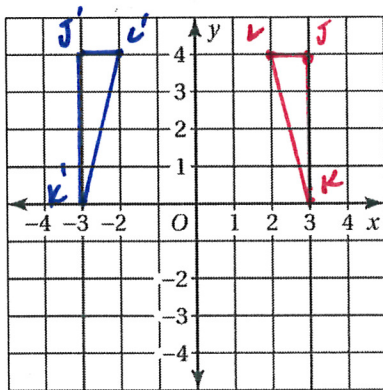
4) $A(1, 2), B(3, 2), C(1, 4)$ 

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

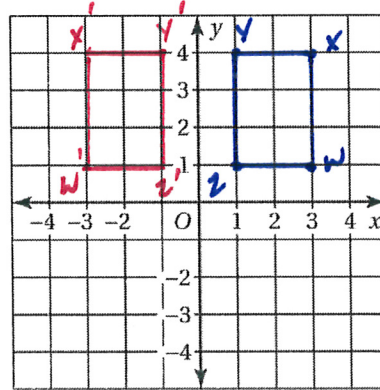
5) $W(3, 1), X(3, 4), Y(1, 4), Z(1, 1)$ 

$W'(3, -1)$
 $X'(3, -4)$
 $Y'(1, -4)$
 $Z'(1, -1)$

Draw the figure and its reflection in the y -axis. Identify the coordinates of the image.

6) $J(3, 4), K(3, 0), L(2, 4)$ 

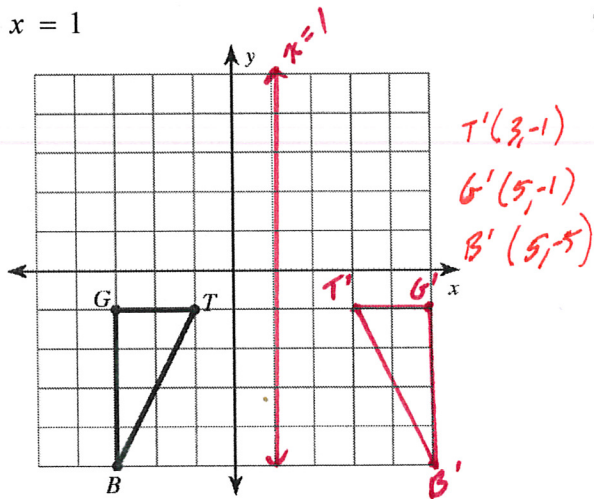
$J'(-3, 4)$
 $K'(-3, 0)$
 $L'(-2, 4)$

7) $W(3, 1), X(3, 4), Y(1, 4), Z(1, 1)$ 

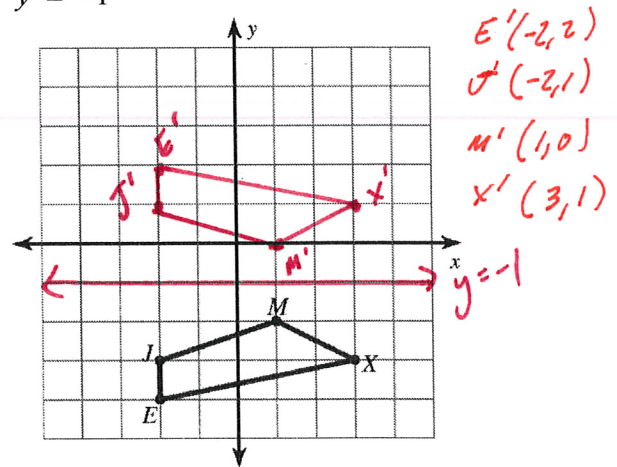
$W'(-3, 1)$
 $X'(-3, 4)$
 $Y'(-1, 4)$
 $Z'(-1, 1)$

Reflection the figure over the given line.

8) $x = 1$



9) $y = -1$



The coordinates of a point and its image are given. Is the reflection in the x -axis or y -axis?

10) $(-5, 2) \rightarrow (5, 2)$

y-axis

11) $(4, 3) \rightarrow (4, -3)$

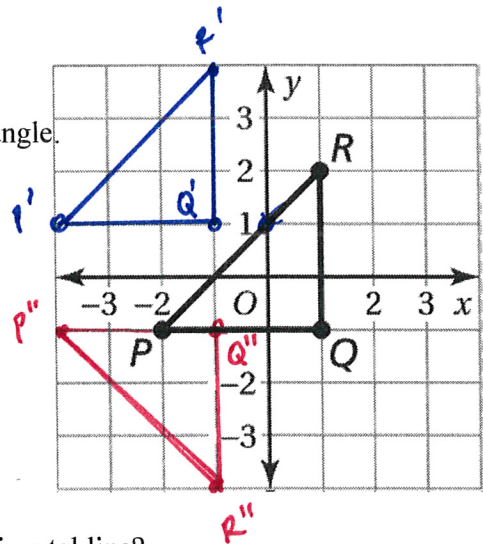
x-axis

12) Translate the triangle 2 units left and 2 unit up.

Then reflect that image in the x -axis. Graph the resulting triangle.

Handwritten coordinates for the resulting triangle:

- $P''(-3, -1)$
- $Q''(-1, -1)$
- $R''(-1, -4)$



13) What does the word MOM spell when it is reflected in a horizontal line?

MOM
 $\longleftrightarrow$
WOW

14) A figure is in Quadrant IV. The figure is reflected in the y -axis. In which quadrant is the image?

III