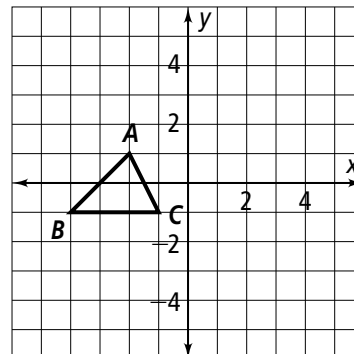


Additional Vocabulary Support

Compositions of Isometries

A student wants to find the image of $\triangle ABC$ for the glide reflection $R_{x=1} \circ T_{\langle 0, 2 \rangle}$.

He wrote these steps to solve the problem on note cards, but they got mixed up.



Write the rule to use for the translation.

$T_{\langle 0, 2 \rangle}$ maps each (x, y) to $(x, y + 2)$

Draw the translation image of $\triangle ABC$.

Draw the reflection image of $\triangle ABC$.

Graph the line of reflection $x = 1$.

Find the images of A, B, and C for a reflection of the translation image.

Find the translation image. The image of A is at $(-2, 3)$, the image of B is at $(-4, 1)$, and the image of C is at $(-1, 1)$.

Use the note cards to write the steps in order. The completed graph is shown below right.

1. First, _____

2. Second, _____

3. Next, _____

4. Then, _____

5. Then, _____

6. Finally, _____

