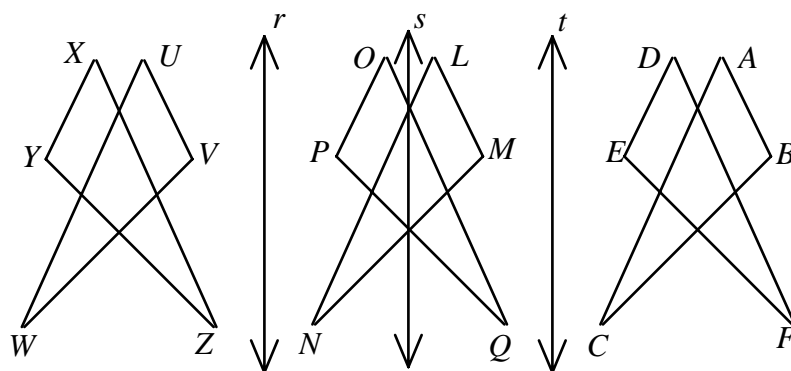


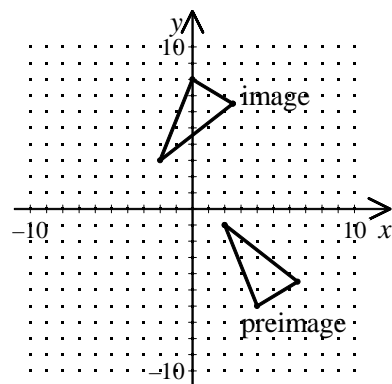
NAME: _____

P.I. G.G.54: Define, investigate, justify, and apply isometries in the plane (rotations, reflections, translations, glide reflections)

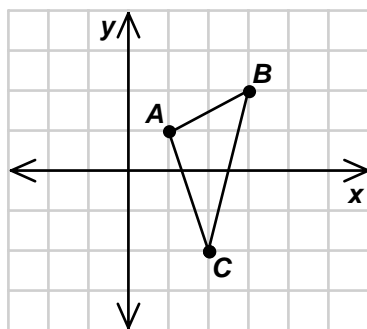
- Describe a two-step transformation of \overline{AB} so that $A'(-2, 3)$ and $B'(1, -4)$. Give the coordinates of A and B .
- Name the translation image of $\triangle UVW$ after a reflection in line r then a reflection in line s .



- In the following glide reflection, identify the individual reflections.



- [A] a reflection in the line $y = 0$ followed by one in the line $x = y$
 [B] reflections in $x = 0$, then $x = -1$, then $y = 1$
 [C] a reflection in the line $x = y$ followed by one in the line $x = -y$
 [D] reflections in $x = 1$, then $x = -1$, then $y = 1$
- Find the image of $\triangle ABC$ under the glide reflection $\langle 3, -1 \rangle$ and $x = 0$.

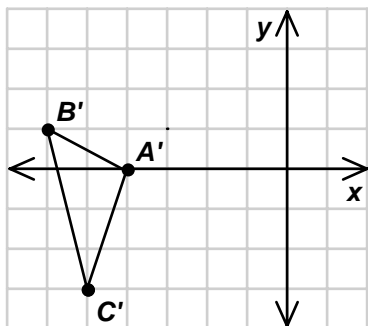


Answers will vary. Sample: $A(2, 2)$ and $B(5, -5)$ are the original coordinates. The figure is

[1] translated 4 units left and 1 unit up.

[2] $\triangle LMN$

[3] D



[4]