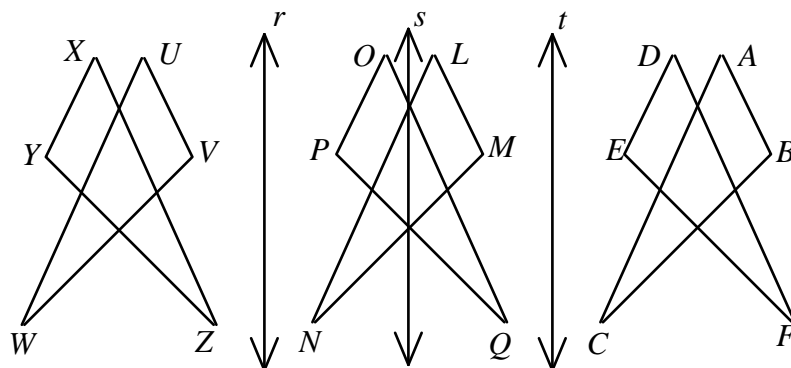
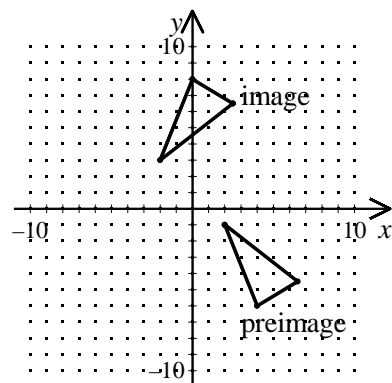


*P.I. G.G.58: Define, investigate, justify, and apply similarities (dilations and the composition of dilations and isometries)*

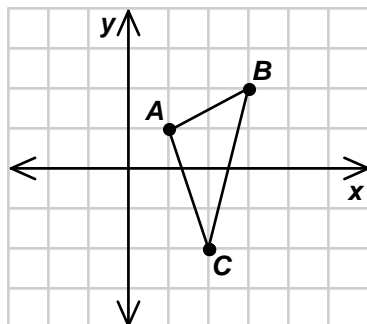
- Describe a two-step transformation of  $\overline{AB}$  so that  $A'(-2, 3)$  and  $B'(1, -4)$ . Give the coordinates of  $A$  and  $B$ .
- Name the translation image of  $\triangle UVW$  after a reflection in line  $r$  then a reflection in line  $s$ .



- 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  $x = 0$ .

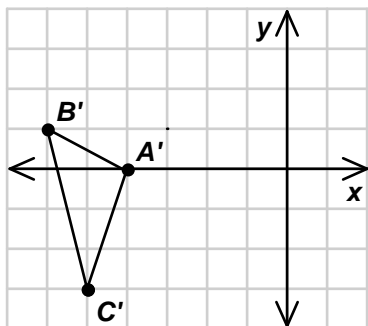


Answers will vary. Sample:  $A(2, 2)$  and  $B(5, -5)$  are the original coordinates. The figure is

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

[2]  $\triangle LMN$

[3] D



[4]