

Practice 9-6

Compositions of Reflections

Match each image of the figure at the left with one of the following isometries:

A. reflection B. rotation C. translation D. glide reflection.

I. _____ II. _____ III. _____ IV. _____

1. PUSH →



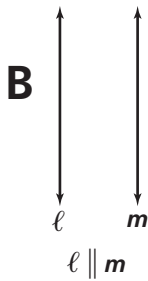
PUSH →



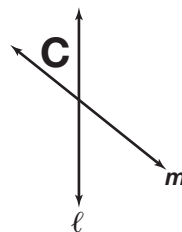
← PUSH

Find the image of each letter through a reflection across line ℓ and then a reflection across line m . Describe the resulting translation.

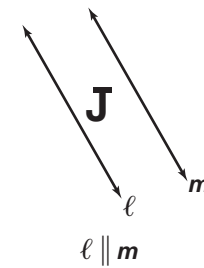
2.



3.



4.

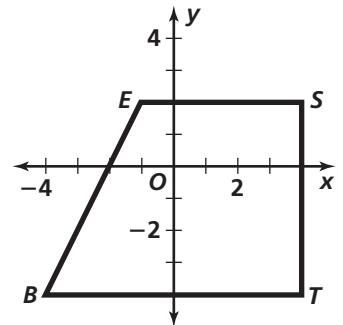


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Find the glide reflection image of $\triangle BEST$ for the given glide and reflection line.

5. $(x, y) \rightarrow (x - 2, y)$ and $x = 0$

6. $(x, y) \rightarrow (x - 1, y + 1)$ and $y = 0$



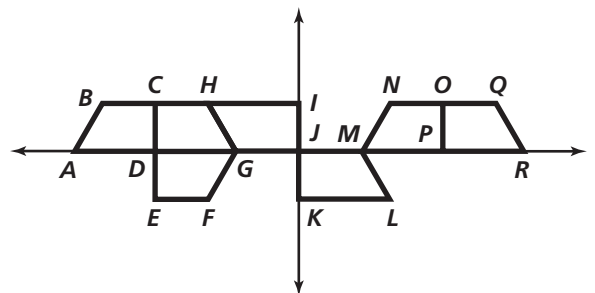
State whether each mapping is a reflection, rotation, translation, or glide reflection.

7. $\triangle ABCD \rightarrow \triangle GHCD$ _____

8. $\triangle HGJI \rightarrow \triangle LMJK$ _____

9. $\triangle GFED \rightarrow \triangle RQOP$ _____

10. $\triangle MNOP \rightarrow \triangle ABCD$ _____



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