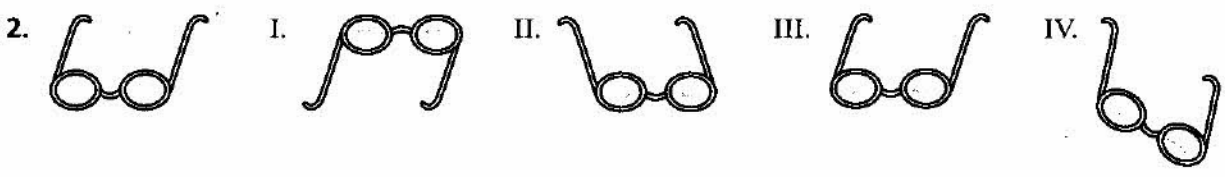


Practice 12-4

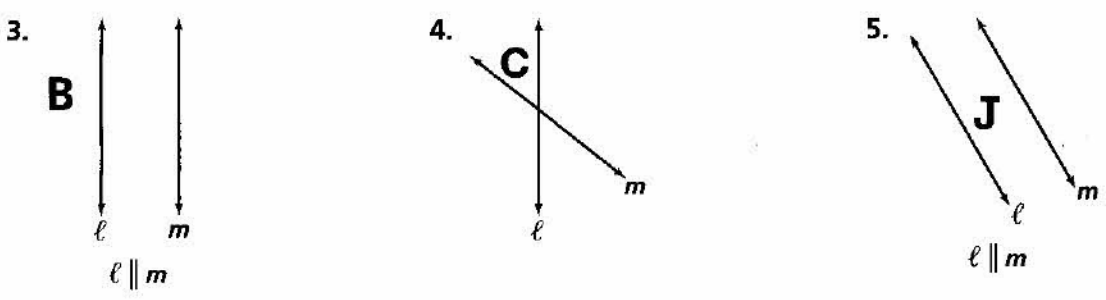
Compositions of Reflections

Match each image of the figure at the left with one of the following isometries: A. reflection B. rotation C. translation D. glide reflection.

1. PUSH → I. ↑ II. PUSH → III. PUSH → IV. ← H2U9
- bN2H

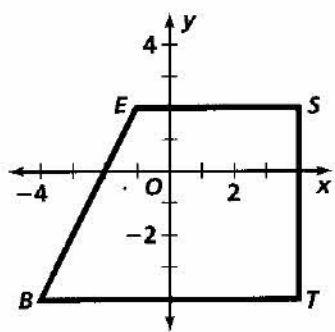


Find the image of each letter through a reflection in line l and then a reflection in line m . Describe the resulting translation.



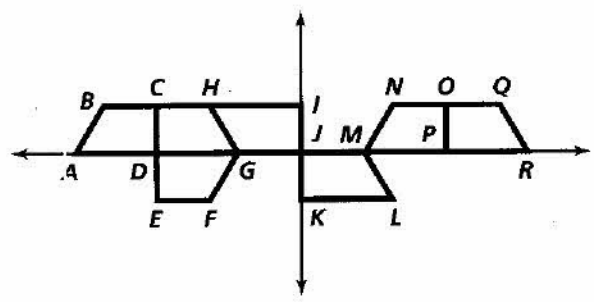
Find the glide reflection image of $\triangle BEST$ for the given glide and reflection line.

- | | |
|---|---|
| 6. $\langle -2, 0 \rangle$ and $x = 0$ | 7. $\langle 0, -1 \rangle$ and $y = 2$ |
| 8. $\langle 0, 2 \rangle$ and $x = 2$ | 9. $\langle 2, 2 \rangle$ and $y = x$ |
| 10. $\langle -1, 1 \rangle$ and $y = 0$ | 11. $\langle 2, 2 \rangle$ and $y = -x$ |
| 12. $\langle 0, 1 \rangle$ and $x = 0$ | 13. $\langle 1, 1 \rangle$ and $y = 0$ |



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

14. $\triangle ABCD \rightarrow \triangle GHCD$
15. $\triangle HGJI \rightarrow \triangle LMJK$
16. $\triangle GFED \rightarrow \triangle RQOP$
17. $\triangle MNOP \rightarrow \triangle ABCD$



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