

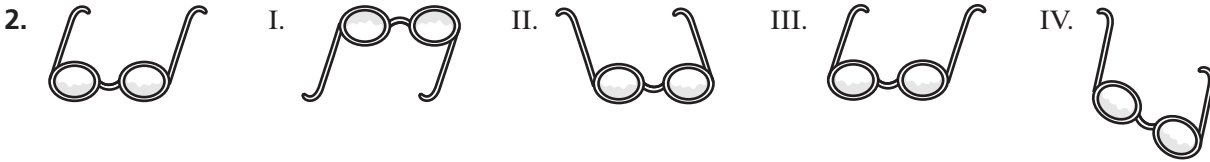
Practice 12-4

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. ↑ H2U9
 II. PUSH → III. PUSH → IV. ← H2U9

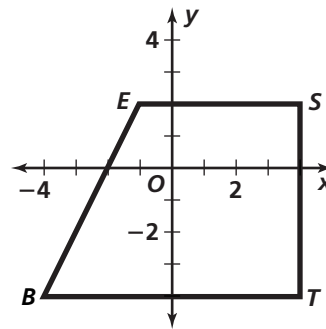


Find the image of each letter through a reflection in line l and then a reflection in line m . Describe the resulting translation.

3. $l \parallel m$
4. $l \parallel m$
5. $l \parallel m$

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. $\triangle MNOP \rightarrow \triangle ABCD$

