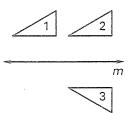
Practice B

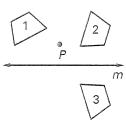
For use with pages 430-436

Match the composition with the diagram, in which figure 1 is the preimage of figure 2, and figure 2 is the preimage of figure 3.

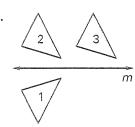
Д



B



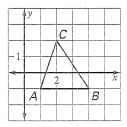
C.



- **1.** Reflect in line m, then translate parallel to line m.
- **2.** Translate parallel to line m, then reflect in line m.
- **3.** Rotate about point P, then reflect in line m.

Perform the stated transformation on the preimage, $\triangle ABC$. Give the coordinates of the image, $\triangle A'B'C'$.

- 4. Rotation: 90° clockwise about the origin
- **5.** Reflection: in x = 3
- **6.** Translation: $(x, y) \rightarrow (x + 3, y 2)$
- 7. Rotation: 180° counterclockwise about the origin
- **8.** Translation: $(x, y) \rightarrow (x 3, y 2)$
- **9.** Reflection: in the line y = x



Sketch the image of A(-4, 2) after the described glide reflection.

10. Translation: $(x, y) \rightarrow (x, y + 3)$

Reflection: in the y-axis

12. Translation: $(x, y) \rightarrow (x - 2, y - 5)$

Reflection: in x = -1

11. Translation: $(x, y) \rightarrow (x - 2, y + 5)$

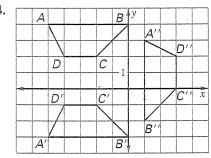
Reflection: in y = 4

13. Translation: $(x, y) \rightarrow (x + 3, y + 2)$

Reflection: in y = x

Describe the composition of the transformations.

14.



15.

