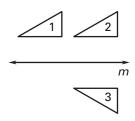
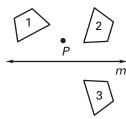
## Practice B

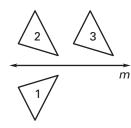
For use with pages 430-436

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.





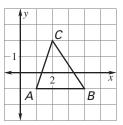
C.



- **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:**  $(x, y) \rightarrow (x - 2, y + 5)$ 

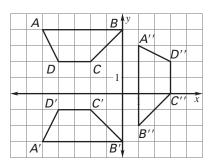
**Reflection:** in v = 4

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

**Reflection:** in y = x

## Describe the composition of the transformations.

14.



15.

