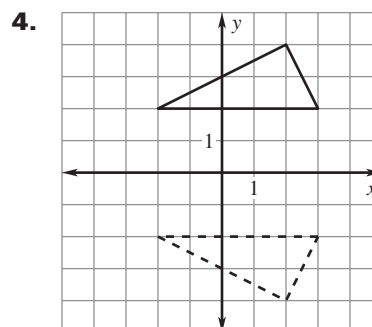
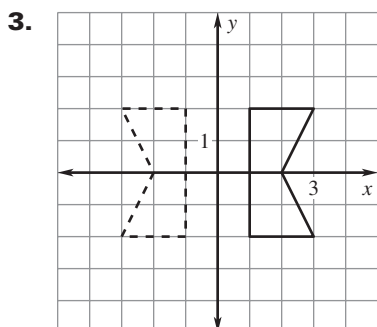
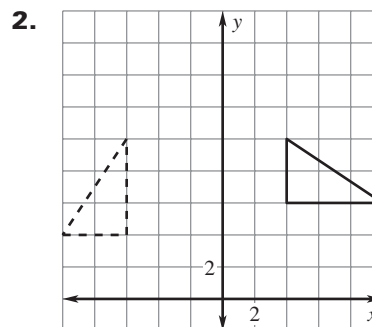
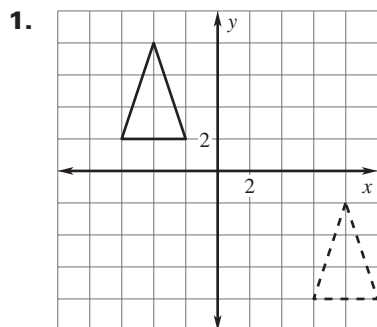


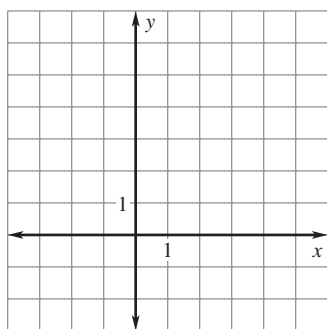
LESSON 4.8 **Practice A**
For use with pages 271–279

If you turn this in on time: do the odds.
If you turn this in late or you are doing it over: do the evens.

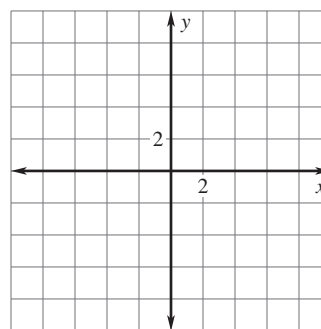
Name the type of transformation shown.



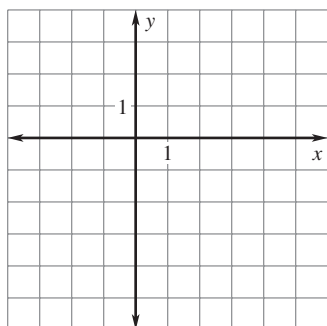
5. Figure ABC has vertices $A(-3, 3)$, $B(1, -1)$, and $C(0, 5)$. Sketch ABC and draw its image after the translation $(x, y) \rightarrow (x + 4, y + 2)$.



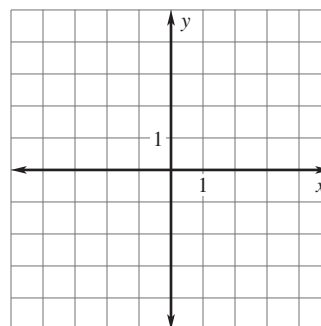
6. Figure ABC has vertices $A(4, 2)$, $B(2, 6)$, and $C(6, 6)$. Sketch ABC and draw its image after the translation $(x, y) \rightarrow (x - 6, y - 3)$.



7. Figure $ABCD$ has vertices $A(0, -5)$, $B(0, -2)$, $C(-3, 2)$, and $D(-2, -4)$. Sketch $ABCD$ and draw its image after the translation $(x, y) \rightarrow (x + 5, y + 1)$.



8. Figure $ABCD$ has vertices $A(3, -4)$, $B(4, -1)$, $C(3, -2)$, and $D(1, -3)$. Sketch $ABCD$ and draw its image after the translation $(x, y) \rightarrow (x - 6, y + 5)$.



Teacher
Score:

Student score:
How well do you feel you understand this learning target:

A
B
C
D
F

LESSON
4.8**Practice A** *continued*
For use with pages 271–279

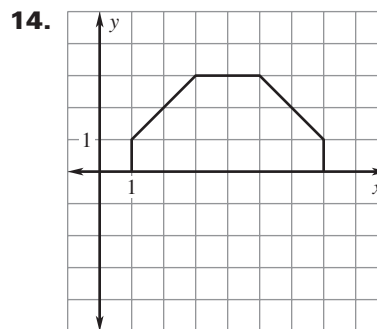
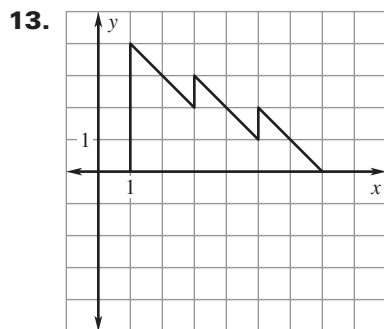
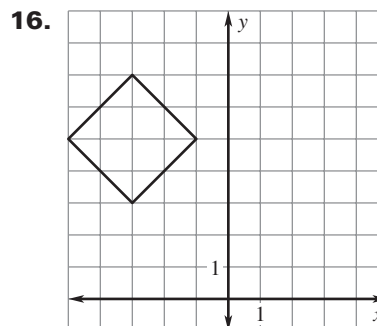
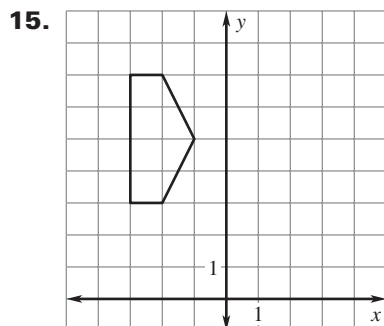
LESSON 4.8

Use coordinate notation to describe the translation.

9. 5 units to the right, 3 units down 10. 9 units to the left, 7 units up

Complete the statement using the description of the translation. In the description, points (2, 3) and (4, 2) are two vertices of a triangle.

11. If (2, 3) translates to (10, -4), then (4, 2) translates to ? .
12. If (2, 3) translates to (-1, 8), then (4, 2) translates to ? .

Use a reflection in the x -axis to draw the other half of the figure.**Use a reflection in the y -axis to draw the other half of the figure.****Use the coordinates to graph \overline{AB} and \overline{CD} . Tell whether \overline{CD} is a rotation of \overline{AB} about the origin. If so, give the angle and direction of rotation.**

17. $A(2, 1), B(5, 3), C(1, -2), D(3, -5)$
18. $A(-2, 3), B(-2, 5), C(-2, -3), D(-3, -7)$