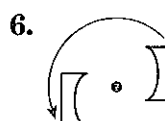
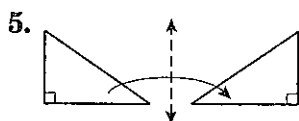
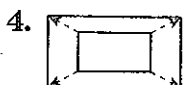
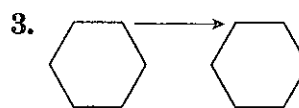
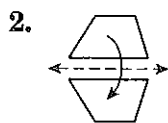
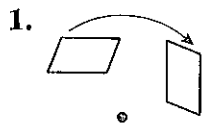


4-2 Skills Practice

Transformations on the Coordinate Plane

Identify each transformation as a *reflection, translation, dilation, or rotation*.



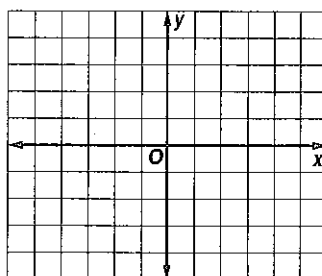
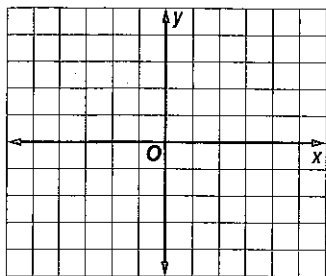
For Exercises 7–10, complete parts a and b.

a. Find the coordinates of the vertices of each figure after the given transformation is performed.

b. Graph the preimage and its image.

7. triangle ABC with $A(1, 2)$, $B(4, -1)$, and $C(1, -1)$ reflected over the y -axis

8. parallelogram $PQRS$ with $P(-2, -1)$, $Q(3, -1)$, $R(2, -3)$, and $S(-3, -3)$ translated 3 units up



9. trapezoid $JKLM$ with $J(-2, 1)$, $K(2, 1)$, $L(1, -1)$, and $M(-1, -1)$ dilated by a scale factor of 2

10. triangle STU with $S(3, 3)$, $T(5, 1)$, and $U(1, 1)$ rotated 90° counterclockwise about the origin

