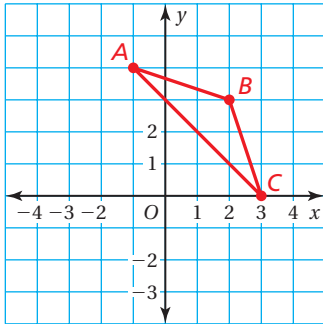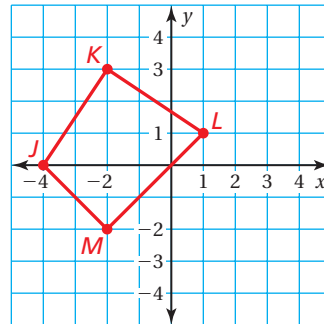1. Translate the triangle 2 units right and 3 units down. What are the coordinates of the image? *(Section 5.5)*

2. Translate the figure 2 units left and 4 units down. What are the coordinates of the image? *(Section 5.5)*
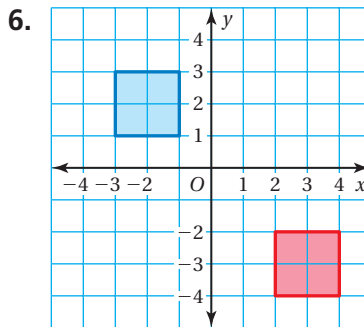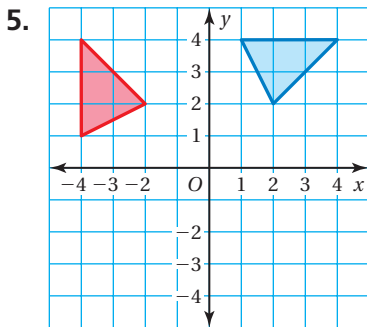

Find the coordinates of the figure after reflecting in the (a) *x*-axis and (b) *y*-axis. *(Section 5.6)*
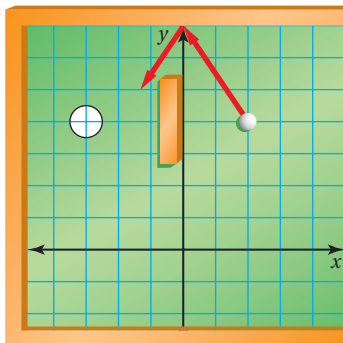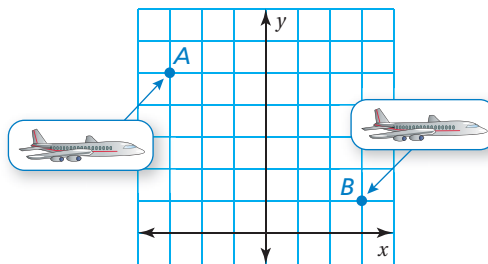
3. $A(2, 0)$, $B(1, 5)$, $C(4, 3)$

4. $D(-2, -5)$, $E(-2, -2)$, $F(1, -2)$, $G(2, -5)$

Tell whether the blue figure is a rotation of the red figure about the origin. If so, give the angle and direction of rotation. *(Section 5.7)*

5.

6.

7. **AIRPLANE** Describe a translation of the airplane from point A to point B. *(Section 5.5)*

8. **MINI GOLF** You plan to hit the golf ball along the red path so that its image will be a reflection in the *y*-axis. Does the golf ball land in the hole? Explain. *(Section 5.6)*

9. **GEOMETRY** The pivot point of a compass is at the origin. A circle is drawn starting at (3, 6). What point is the compass pencil on when the compass has rotated 270° counterclockwise? *(Section 5.7)*