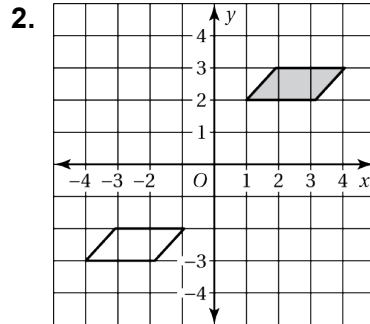
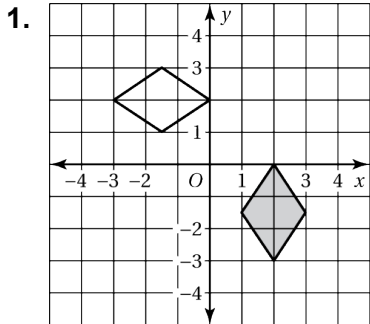


# 2.4

## Practice

For use after Lesson 2.4

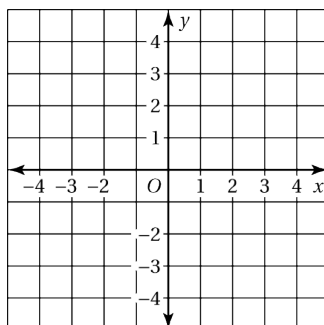
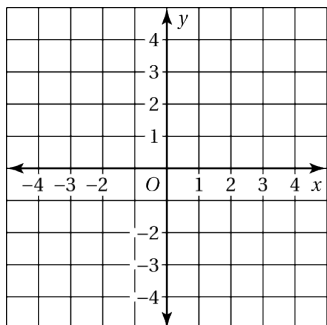
Tell whether the shaded figure is a rotation of the non-shaded figure about the origin. If so, give the angle and the direction of rotation.



The vertices of a triangle are  $A(1, 1)$ ,  $B(3, 1)$ , and  $C(3, 4)$ . Rotate the triangle as described. Find the coordinates of the image.

3.  $90^\circ$  clockwise about the origin

4.  $270^\circ$  counterclockwise about vertex  $A$



5. A triangle is rotated  $180^\circ$  about the origin. Its image is reflected in the  $x$ -axis. The vertices of the final triangle are  $(-4, -4)$ ,  $(-2, -4)$ , and  $(-3, -1)$ . What are the vertices of the original triangle?