NAME_____

Module 11   Transformation of Shapes
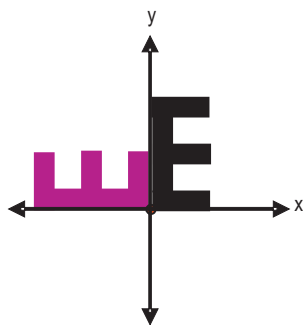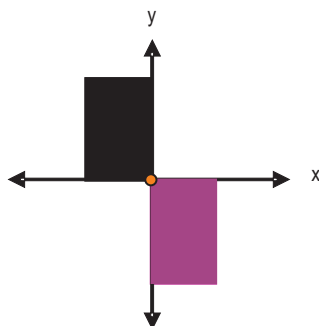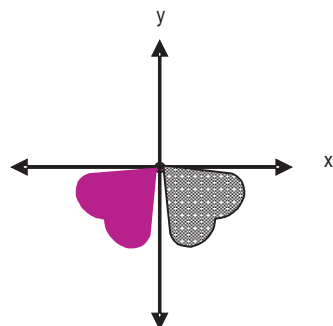**Lesson 2   Rotations**
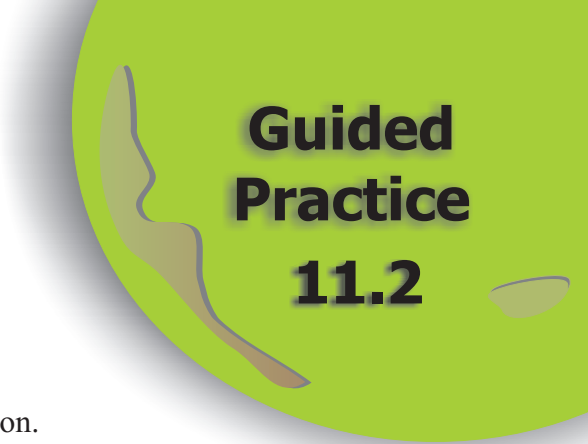
Set 1

1   Rotate the figure 90° with the origin as the center of rotation.

2   Rotate the rectangle 180° with the origin as the center of rotation.

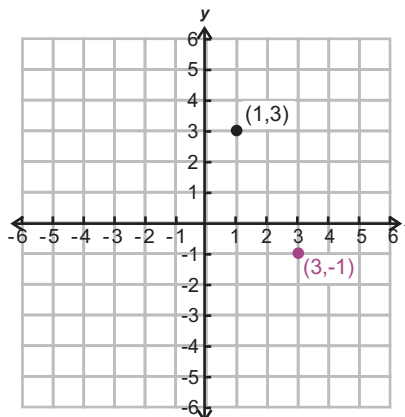**3**   Rotate the heart 270° with the origin as the center of rotation.

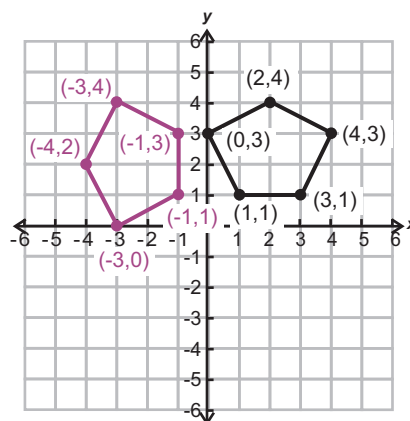**1** Rotate the point (1, 3) by 270° about the origin.

$(a, b) \rightarrow (b, -a)$
$(1, 3) \rightarrow (3, -1)$

2 Rotate the pentagon 90° about the origin.

$(a, b) \rightarrow (-b, a)$

3 Rotate the triangle 180° about the origin.

$(a, b) \rightarrow (-a, -b)$