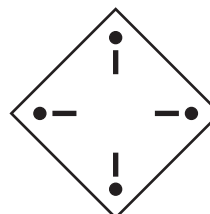
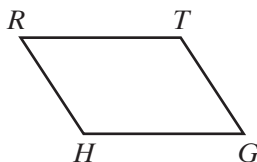
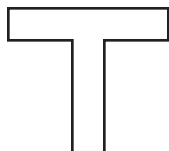


Practice 9-10

Rotations

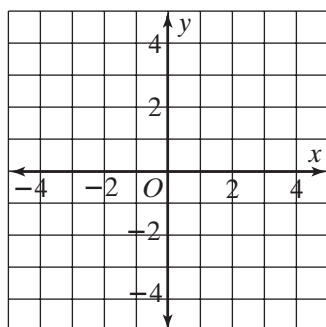
Judging from appearances, does each figure have rotational symmetry? If yes, what is the angle of rotation?

1. _____ 2. _____ 3. _____



The vertices of a triangle are given. Graph each triangle and its image after a rotation of (a) 90° and (b) 180° about the origin. Name the coordinates of the vertices of the images.

4. $A(1, 4), B(1, 1), C(4, 2)$



90°

180°

A' _____

A'' _____

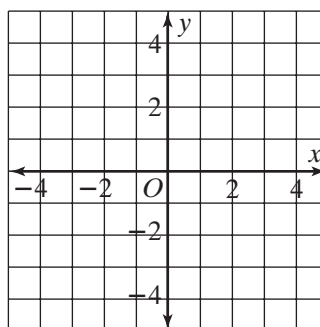
B' _____

B'' _____

C' _____

C'' _____

5. $S(2, 3), T(-2, 4), U(-4, 2)$



90°

180°

S' _____

S'' _____

T' _____

T'' _____

U' _____

U'' _____

Look for a pattern in Exercises 4 and 5 to complete the following.

6. In a 90° rotation, $(x, y) \rightarrow$ _____

7. In a 180° rotation, $(x, y) \rightarrow$ _____

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