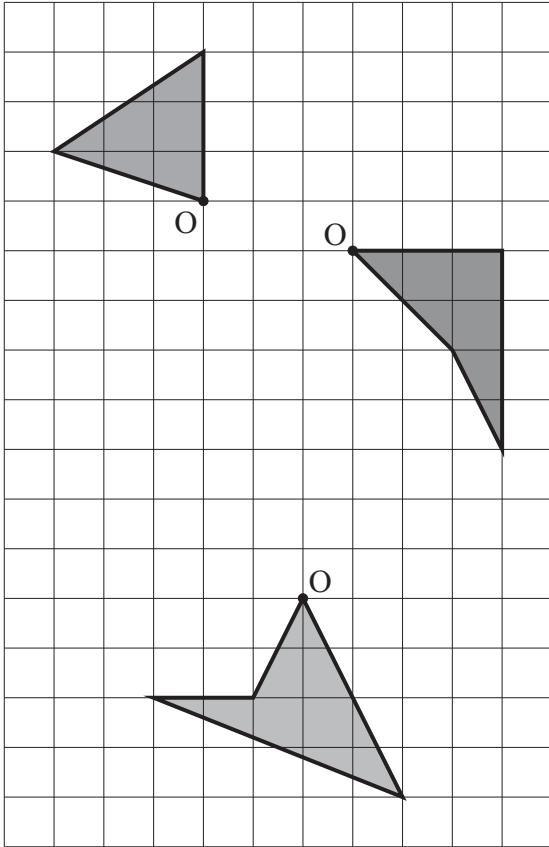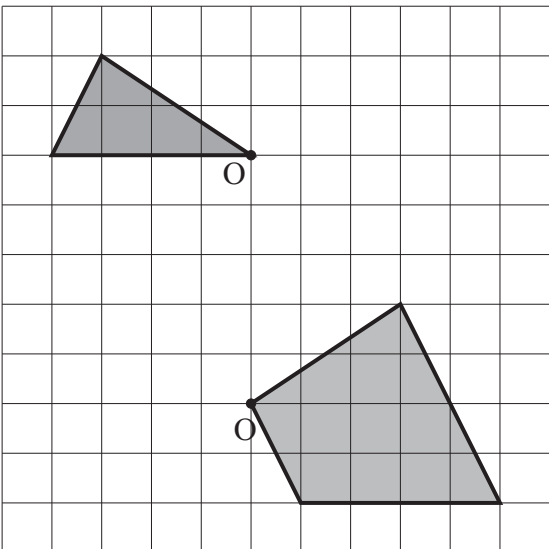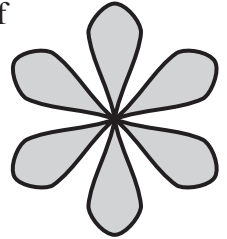*Name*: _____

1. Redraw the following shapes after they have been rotated 90° *clockwise* about O.
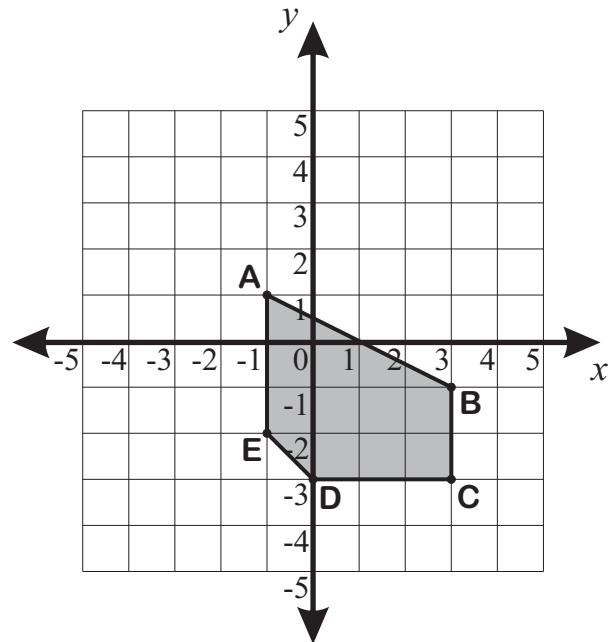
O   O

O

2. Redraw the following shapes after they have been rotated 180° *clockwise* about O.

O

O

3. What is the *minimum* angle of *clockwise* rotation for this shape to appear the same?

4. For the shape shown on this Cartesian plane answer the questions below.

(a) List the coordinates of the vertices of the shape.

A = (,   )   **B** = (,   )
C = (,   )   **D** = (,   )
E = (,   )

(b) Draw the shape after it has been rotated 90° *anticlockwise* about **A**.

(c) List the coordinates of the vertices of this rotated shape.

A' = (,   )   **B'** = (,   )
C' = (,   )   **D'** = (,   )
E' = (,   )