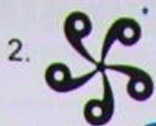


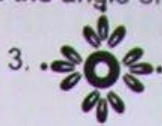
Practice: For each figure state the order and the angle of rotation.



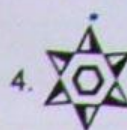
Order: 2
 Angle: $\frac{360 \div 2 = 180^\circ}$



Order: 5
 Angle: $\frac{360 \div 5 = 72^\circ}$



Order: 4
 Angle: $\frac{360 \div 4 = 90^\circ}$



Order: 6
 Angle: $\frac{360 \div 6 = 60^\circ}$

Notes for Rotational Symmetry on a Coordinate Grid

The vertices of a polygon are listed. Graph and label each polygon and its image after a given rotation. Name the coordinates of the image.

1. Rotate figure STU about the origin 90° clockwise.

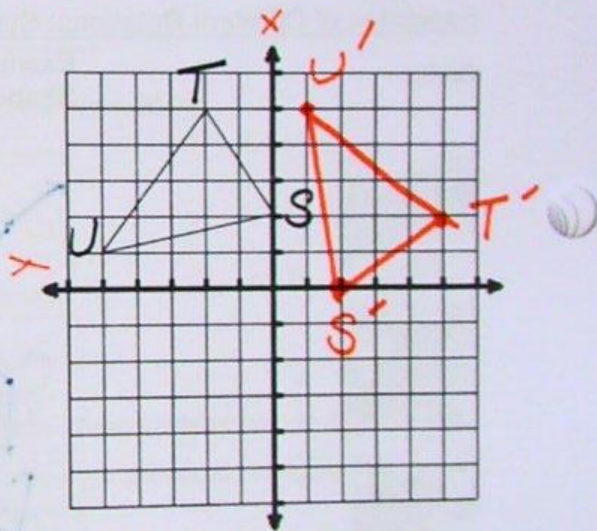
S (0, 2) → S' (2, 0)

T (-2, 5) → T' (5, 2)

U (-5, 1) → U' (1, 5)

Write the general rule:

$(x, y) \rightarrow (y, -x)$



2. Rotate figure EFG about the origin 180° .

E (1, 4) → E' (-1, -4) (h-1-)

F (3, -2) → F' (-3, 2) (2'ε-)

G (5, 4) → G' (-5, -4) (h-5-)

Write the general rule:

$(x, y) \rightarrow (-x, -y)$

opposite

