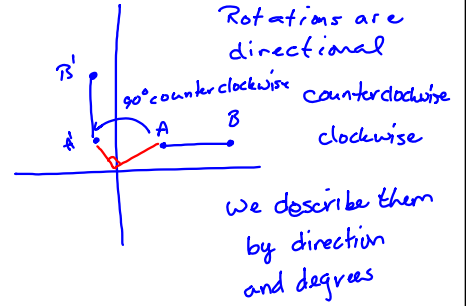


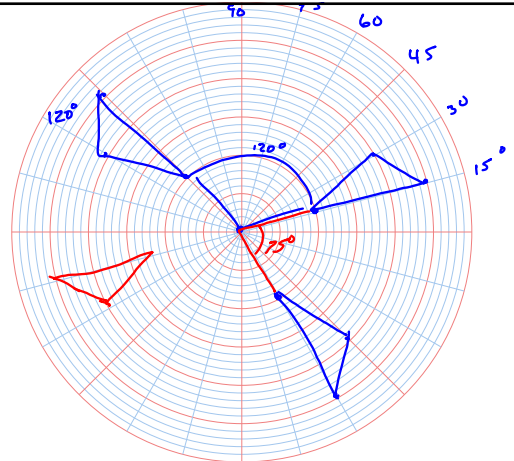
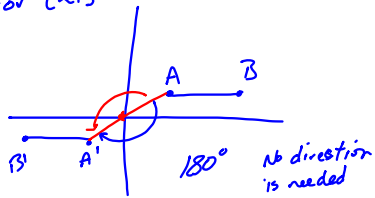
4.4 Rotations

change in orientation but
not in size

Rotates on a single point
(origin)

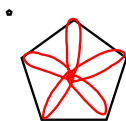


for this



Rotational Symmetry

Symmetry where a rotation
of $< 360^\circ$ gives the original
object



90, 180, 270



90, 180, 270

When the shape is regular
there is symmetry
based on the number of
sides



$$\frac{360}{8} = 45^\circ$$

45, 90, 135, 180, 225, 270, 315

If it is not regular
then you have to be
careful

↳ Trapezoid



No symmetry