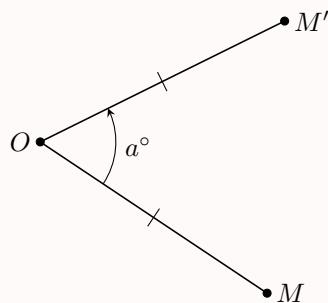


# ROTATION

## A WHAT IS A ROTATION?

### Definition Rotation of a Point

A **rotation** of point  $M$  through an angle  $a^\circ$  about center  $O$  gives a point  $M'$  such that  $\angle MOM' = a^\circ$  and  $OM = OM'$ . The rotation may be clockwise  $\curvearrowright$  or counterclockwise  $\curvearrowleft$ .



### Definition Rotation

A **rotation** of an object through an angle  $a^\circ$  about center  $O$  is the rotation of all its points through the same angle around  $O$ . The object keeps the same size and shape; only its position changes.

