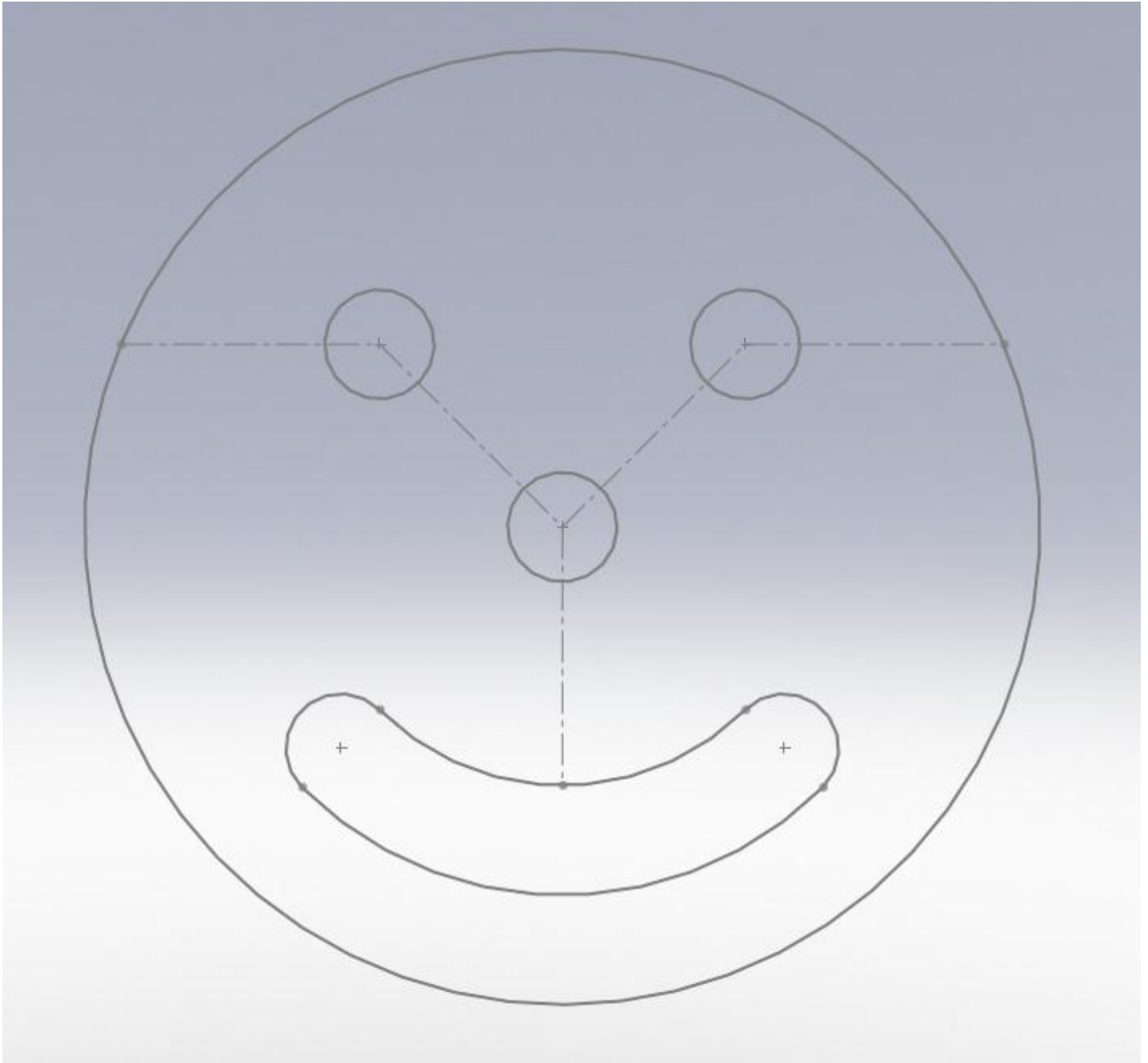


# WORKSHOP #1

## SMILEY FACE



SAVE FILE AS “LASTNAME\_FIRSTNAME\_WS1”

- The center of the “nose” circle is the ORIGIN. This is also the center of the large outer circle.
- The two arcs that make the “top lip” and “bottom lip” of the “mouth” have center point at the origin. Thus, the nose, the large outer circle, bottom and top lips of the mouth are concentric (same center point).
- Both eyes, the nose, and the arcs that round out the sides of the mouth are EQUAL in size. ( $=0$ )
- The five (5) construction lines are all of the same length. (Denoted here by  $=1$ )
- The two (2) construction lines that join the eyes with the nose are PERPENDICULAR. ( $\perp 2$ )
- The two (2) construction lines that connect the eyes with the large outer circle are both HORIZONTAL. (-)
- The one (1) construction line that connects the nose to the mouth is VERTICAL. ( $|$ )
- The center of the left eye and the point on the left side of the mouth where the arc meets are VERTICAL with respect to each other. ( $|4$ ) Likewise, the center of the right eye and the point on the right side of the mouth where the arc begins are also VERTICAL. ( $|5$ )
- The arcs on the edges of the mouth are tangent on both points. ( $\diamond$ )
- NOTE: YOUR SKETCH WILL APPEAR TO HAVE MANY MORE CONSTRAINTS THEN SHOWN IN THIS PICTURE.

