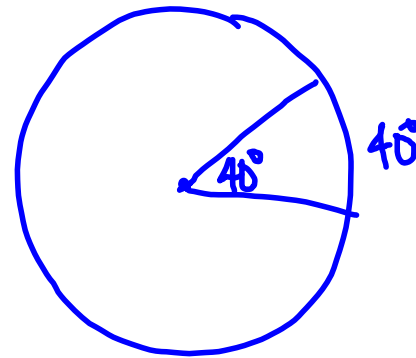
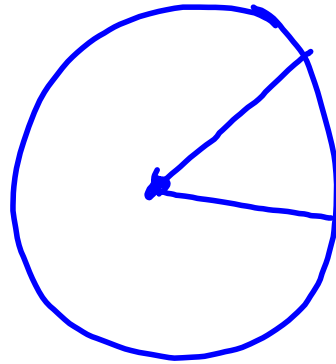


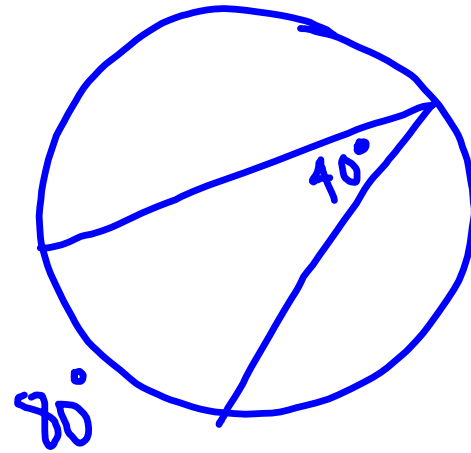
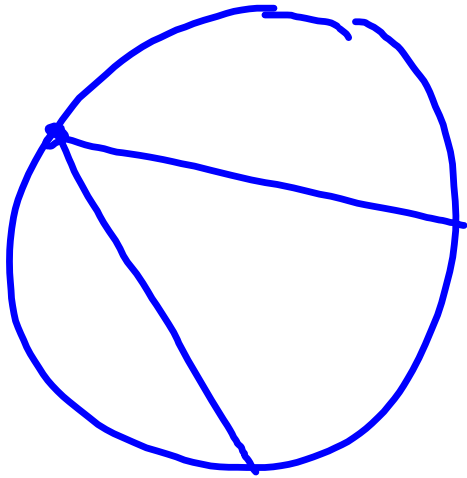
Central at the center

$$m\angle = m \text{ arc}$$

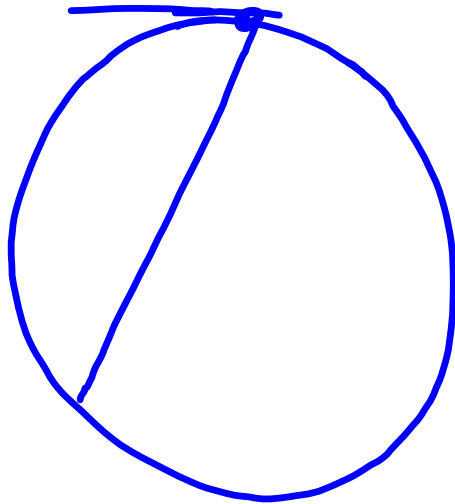


Inscribed on

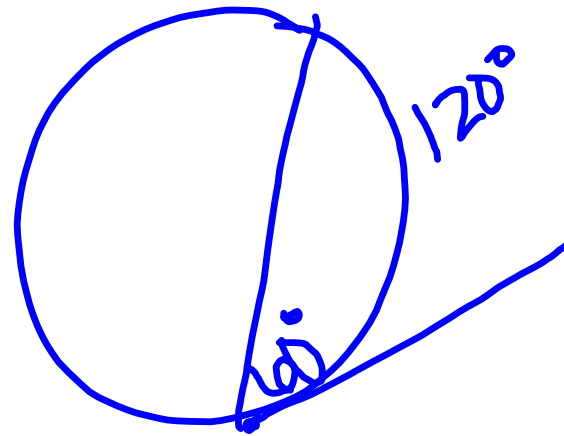
$$m \angle = \frac{1}{2} m \text{ arc}$$



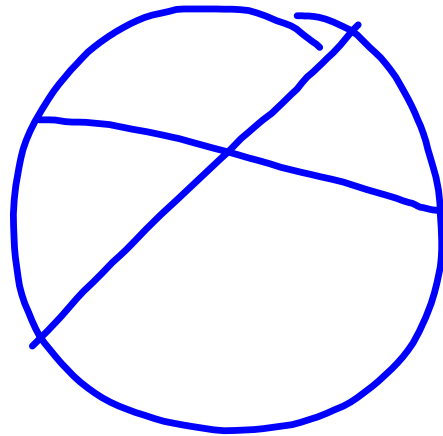
Tangent - Chord on



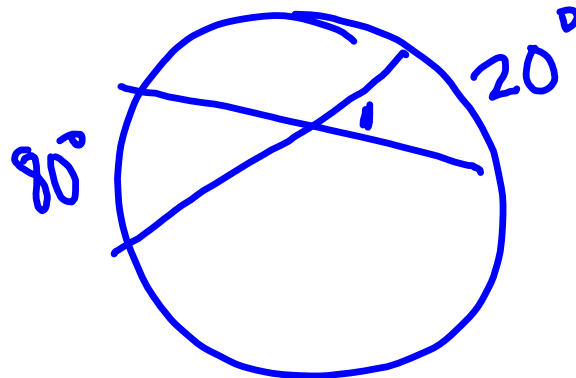
$$m \angle = \frac{1}{2} m \text{ arc}$$



Chord-Chord inside



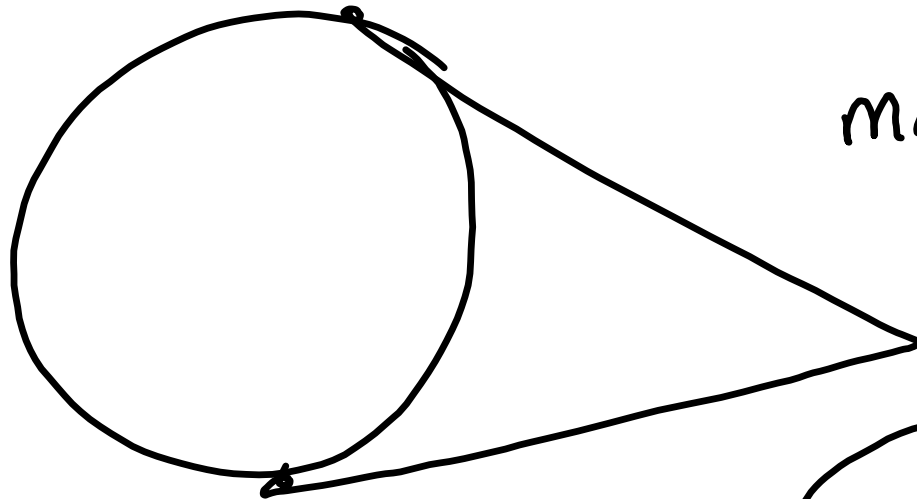
$$m\angle = \frac{1}{2} \text{ sum of the arcs}$$



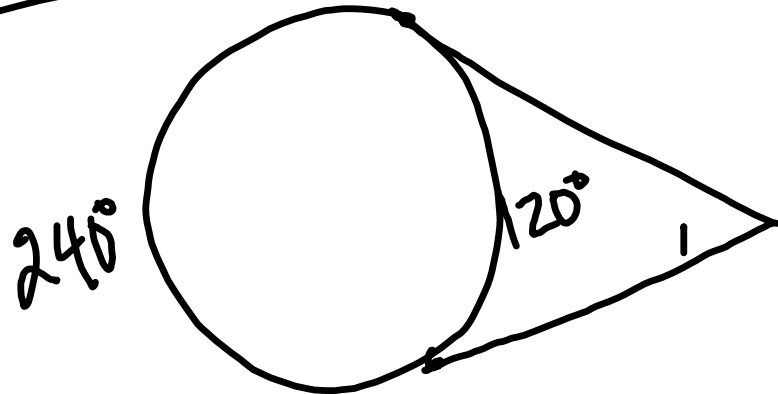
$$\begin{aligned} m\angle 1 &= \frac{1}{2}(80+20) \\ &= 50^\circ \end{aligned}$$

Outside

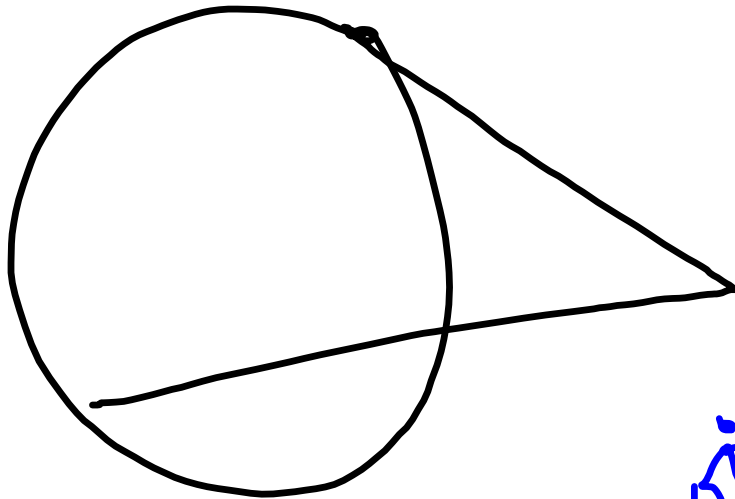
Tangent - tangent $m\angle = \frac{1}{2}$ difference of the arcs



$$m\angle 1 = \frac{1}{2}(240^\circ - 120^\circ)$$
$$\frac{1}{2}(120)$$
$$60^\circ$$

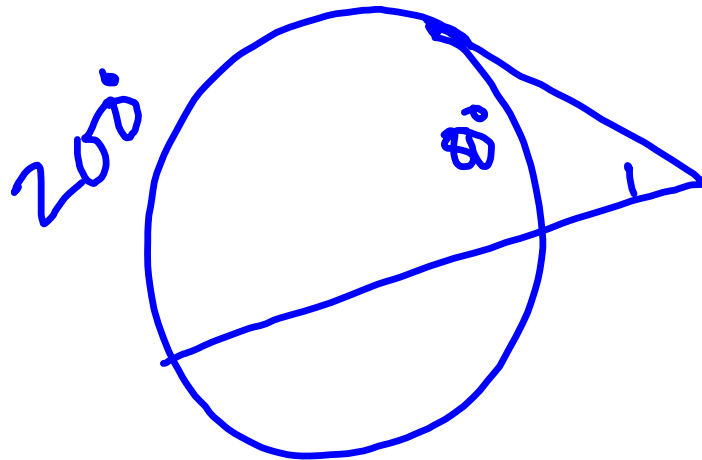


Secant - tangent outside



$$m\angle 1 = \frac{1}{2}(200 - 80)$$
$$\frac{1}{2}(120)$$

60



Secant-secant outside

$$m\angle 1 = \frac{1}{2}(100 - 10) = \frac{1}{2}(90) = 45^\circ$$

