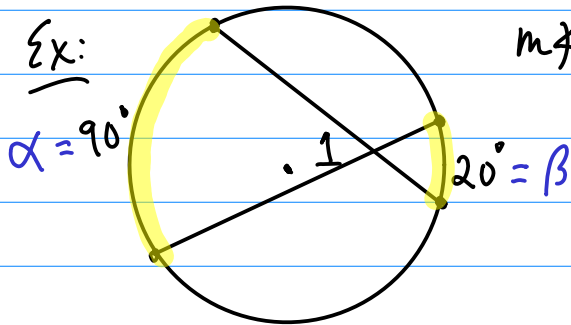


JBJ §7.6: ∠'s Formed by Chords & Secants

Intersecting Chords:



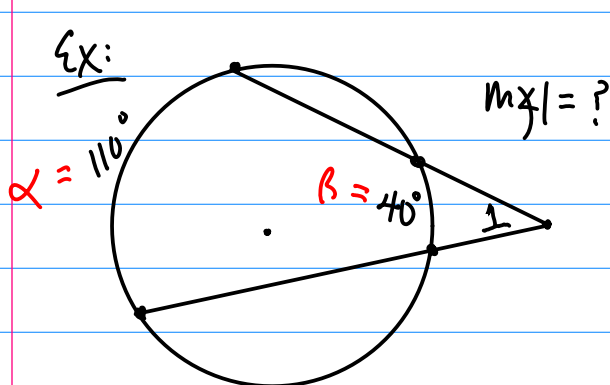
$$m\angle = \frac{90^\circ + 20^\circ}{2}$$

$$= \frac{110^\circ}{2}$$

$$= 55^\circ$$

* \angle is INSIDE $\odot \Rightarrow$ $m\angle = \frac{\alpha + \beta}{2}$

Intersecting Secants & Tangents:

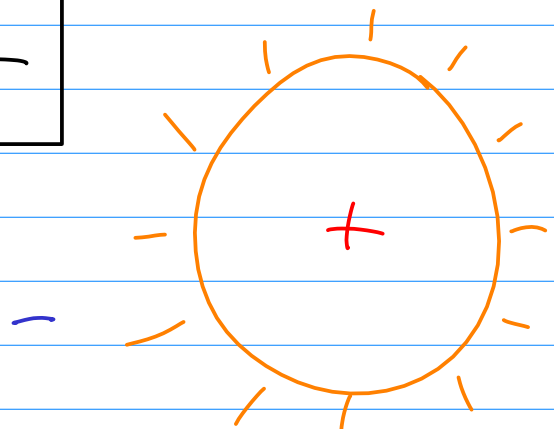


$$m\angle = \frac{110^\circ - 40^\circ}{2}$$

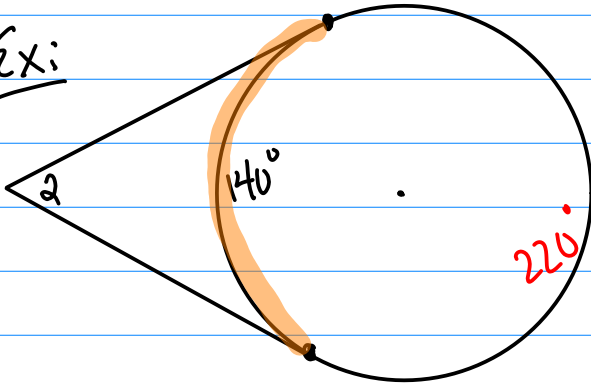
$$= \frac{70^\circ}{2}$$

$$= \boxed{35^\circ}$$

* \angle is OUTSIDE $\odot \Rightarrow$ $m\angle = \frac{\alpha - \beta}{2}$



Ex:



$m\angle a = ?$

$$m\angle a = \frac{220^\circ - 140^\circ}{2}$$

$$= \frac{80^\circ}{2}$$

$$= \boxed{40^\circ}$$