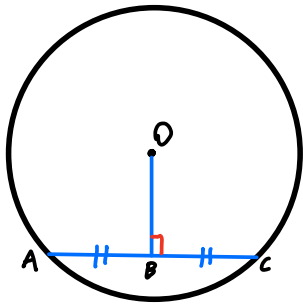


Theorems

(Muhammad Moosa)

Center of Circle Theorems:

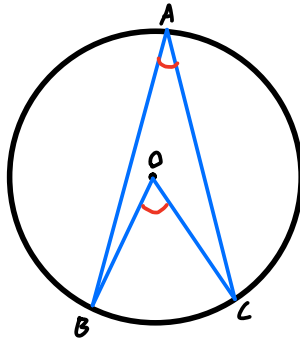
Theorem 1:



$$OB \perp AC$$

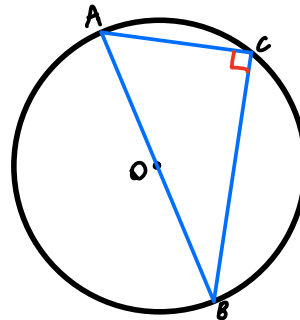
$$AB = BC$$

Theorem 2:



$$\hat{BOC} = 2 \times \hat{A}$$

Theorem 3:

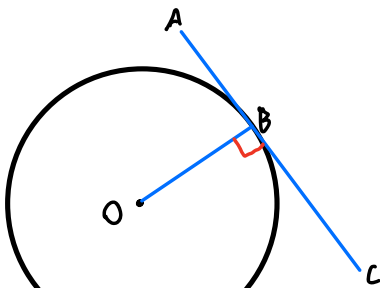


$$AB = \text{diameter}$$

$$\angle C = 90^\circ$$

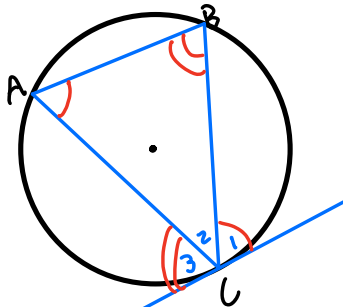
Tangent Theorems:

Theorem 7:



$$OB \perp AC$$

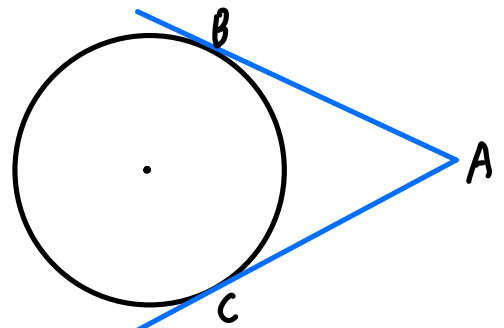
Theorem 9:



$$\hat{C}_1 = \hat{A} \quad \hat{C}_3 = \hat{B}$$

Tan Chord

Theorem 8:

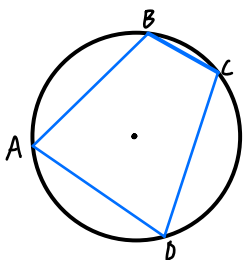


$$AB = AC$$

Tan from same point

Cyclic Quadrilateral Theorems:

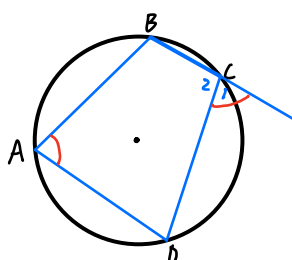
Theorem 5:



$$\hat{A} + \hat{C} = 180^\circ$$

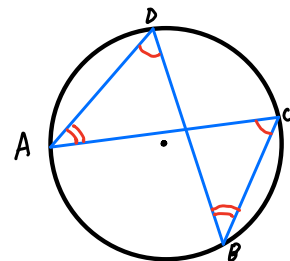
$$\hat{B} + \hat{D} = 180^\circ$$

Theorem 6:



$$\hat{C}_1 = \hat{A}$$

Theorem 4:



$$\hat{D} = \hat{C}$$

$$\hat{A} = \hat{B}$$

Angles in same segment: