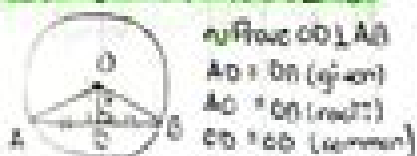


EUCLIDEAN GEOMETRY

① LINE FROM CENTRE TO MIDPT OF CHORD

IF $AD = DB$ THEN $OD \perp AB$



~ Prove $OD \perp AB$
 $AD = DB$ (given)
 $AO = OB$ (radii)
 $OD = OD$ (common)
 $\therefore \triangle AOD \cong \triangle BOD$ (SSS)
 $\hat{O}_1 = \hat{O}_2$
 $\hat{O}_1 + \hat{O}_2 = 180^\circ$ (supp \angle 's) (Line from centre to chord)
 $\hat{O}_1 = \hat{O}_2 = 90^\circ \therefore OD \perp AB$ (midpt of chord)

③ \angle AT CENTRE = $2 \times \angle$ AT CIRCLE

$\hat{AOC} = 2\hat{ABC}$



~ Prove $\hat{AOC} = 2\hat{ABC}$
 In $\triangle OCA$:
 $OA = OC$ (radii)
 $\hat{A}_1 = \hat{C}_1$ (base \angle 's)
 $\hat{O}_1 = \hat{A}_1 + \hat{C}_1$ (ext \angle on OC)
 $\hat{O}_1 = \hat{A}_1 + \hat{A}_1 = 2\hat{A}_1$
 $\hat{O}_1 = \hat{O}_2 = 2\hat{A}_1 + 2\hat{A}_2 = 2(\hat{A}_1 + \hat{A}_2)$
 $\therefore \hat{AOC} = 2\hat{ABC}$ (\angle at centre = $2 \times \angle$ at circle)

THEOREMS

② LINE FROM CENTRE \perp TO CHORD

IF $OD \perp AB$ THEN $AD = DB$



~ Prove $AD = DB$
 $OA = OB$ (radii)
 $OD = OD$ (common)
 $\hat{O}_1 = \hat{O}_2 = 90^\circ$ (given)
 $\therefore \triangle AOD \cong \triangle BOD$ (RHS)
 $\hat{O}_1 = \hat{O}_2$
 $\hat{A}_1 = \hat{B}_1$
 $AD = DB$
 $\therefore AD = DB$ (Line from centre \perp to chord)

④ \angle IN A SEMI CIRCLE = DIAMETERS

$\hat{C} = 90^\circ$



~ Prove $\hat{C} = 90^\circ$
 $\hat{AOB} = 180^\circ$ (Linear pair)
 $\hat{C} = \frac{1}{2}\hat{AOB}$ (\angle at centre = $2 \times \angle$ at circle)
 $= \frac{1}{2}(180^\circ)$
 $= 90^\circ$
 $\therefore \hat{C} = 90^\circ$ (\angle in a semi circle)

* CONVERSE: The subtense \angle 's
 If $\hat{A} = \hat{B}$ then ABCD = cyclic quad

⑤ \angle 'S IN SAME SEG

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



~ Prove $\hat{A} = \hat{B}$
 $\hat{A} = \frac{1}{2}\hat{O}$ (\angle at centre = $2 \times \angle$ at circle)
 $\hat{B} = \frac{1}{2}\hat{O}$ (\angle at centre = $2 \times \angle$ at circle)
 $\hat{A} = \hat{B}$ (both = $\frac{1}{2}\hat{O}$)
 $\therefore \hat{A} = \hat{B}$ (\angle 's in same seg AC)

⑥ EQUAL CHORDS EQUAL \angle 'S

$\hat{E} = \hat{F}$



~ Prove $\hat{E} = \hat{F}$
 $AC = BD$ (given)
 $\therefore \hat{E} = \hat{F}$ (equal chords equal \angle 's)

Odysseyware Geometry Theorems

Wolfgang Guggemos



Odysseyware Geometry Theorems:

Reviewing **Odysseyware Geometry Theorems**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is truly astonishing. Within the pages of "**Odysseyware Geometry Theorems**," an enthralling opus penned by a very acclaimed wordsmith, readers attempt an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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