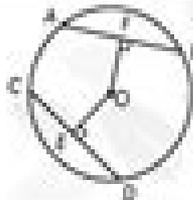


GEOMETRIC PROPERTIES OF CIRCLES

SYMMETRIC PROPERTIES

1. Equal chords are equidistant from centre.

- If $AB = CD$ then $OE = OF$
(equal chords, equidistant from centre)



2. Perpendicular bisector (PB) of a chord passes through the centre of circle.

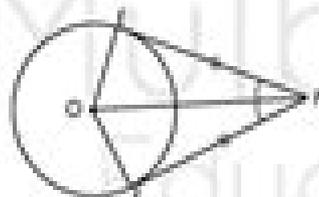
- If NM is a PB of chord AB, then NM passes through the centre of circle O.
- If $OM \perp AB$, then $AM = MB$.
(\perp from centre bisects chord).



3. Tangents from an external point are equal in length.

4. Line joining external point to the centre of circle bisect the angle between the tangents.

- If PE & PF are the tangents to the circle at E and F respectively, then $TA = TB$.
- $\angle EPO = \angle FPO$
(tangents from ext. point)



ANGLE PROPERTIES

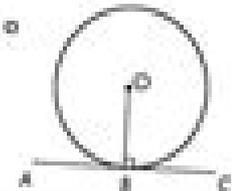
1. Angle in a semicircle is a right angle

- If AB is a diameter, then $\angle C = 90^\circ$ (\angle in a semicircle).



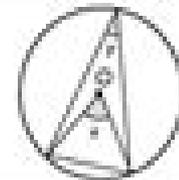
2. Angle between tangent and radius of circle is a right angle.

- If AC is tangent to the circle at B, then $\angle OBC = 90^\circ$ (tan \perp rad)



3. Angle at centre is twice the angle at the circumference.

$$x = 2y \quad (\angle \text{ at centre} = 2 \angle \text{ at } C^\circ)$$



4. Angles in the same segment are equal.

$$\angle x = \angle y \quad (\angle \text{ s in the same segment})$$



5. Angles in opposite segments are supplementary.

$$\angle x + \angle y = 180^\circ \quad (\angle \text{ s in opp segments/cyclic quad})$$



Geometry Notes Chapter 10 Properties Of Circles

**Cape of Good Hope (South Africa).
Education Department**



Geometry Notes Chapter 10 Properties Of Circles:

Geometry Ron Larson,1995 Convexity from the Geometric Point of View Vitor Balestro,Horst Martini,Ralph Teixeira,2024-07-14 This text gives a comprehensive introduction to the common core of convex geometry Basic concepts and tools which are present in all branches of that field are presented with a highly didactic approach Mainly directed to graduate and advanced undergraduates the book is self contained in such a way that it can be read by anyone who has standard undergraduate knowledge of analysis and of linear algebra Additionally it can be used as a single reference for a complete introduction to convex geometry and the content coverage is sufficiently broad that the reader may gain a glimpse of the entire breadth of the field and various subfields The book is suitable as a primary text for courses in convex geometry and also in discrete geometry including polytopes It is also appropriate for survey type courses in Banach space theory convex analysis differential geometry and applications of measure theory Solutions to all exercises are available to instructors who adopt the text for coursework Most chapters use the same structure with the first part presenting theory and the next containing a healthy range of exercises Some of the exercises may even be considered as short introductions to ideas which are not covered in the theory portion Each chapter has a notes section offering a rich narrative to accompany the theory illuminating the development of ideas and providing overviews to the literature concerning the covered topics In most cases these notes bring the reader to the research front The text includes many figures that illustrate concepts and some parts of the proofs enabling the reader to have a better understanding of the geometric meaning of the ideas An appendix containing basic and geometric measure theory collects useful information for convex geometers **NCERT Based**

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