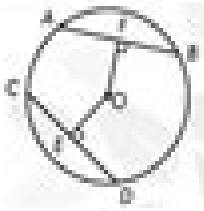
GEOMETRIC PROPERTIES OF CIRCLES

SYMMETRIC PROPERTIES

1. Equal chords are equidistant from centre.

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

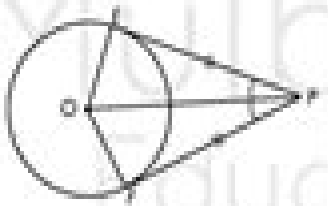


2. Perpendicular bisector (PB) of a chord passes through the centre of circle.

   - 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 bisects 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)



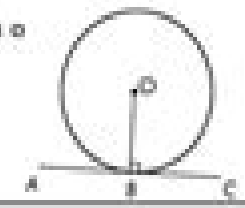
ANGLE PROPERTIES

1. Angle in a semicircle is a right angle

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

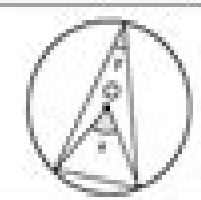
2. Angle between tangent and radius of circle is a right angle.

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



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

   $x = 2y$ ($\angle$ at centre = 2 $\angle$ at $\bigcirc^{ce}$)

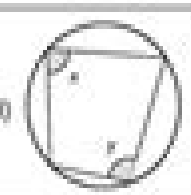


4. Angles in the same segment are equal.

   $\angle x = \angle y$ ($\angle$s in the same segment)

5. Angles in opposite segments are supplementary.

   $\angle x + \angle y = 180°$ ($\angle$s in opp segments/cyclic quad)



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web thus for reaction 9 2 in which 1 mole of h3o and 1 mole of oh combine to form 2 moles of h2o h 55 8 kj as shown note that the enthalpy change h hproducts hreactants is positive if heat is absorbed that is if hproducts

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web hess s law enthalpy of reaction and hess s law abstract the goal of this lab is to perform experiments and practice hess s law by determining enthalpy change in chemical reactions in this lab three experiments were conducted in order to test hess s law the experiments required observing and collecting data on three different reactions

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web objective the purpose of the lab is to combine two reactants in the calorimeter and measure the heats of reaction in

solution eventually allowing an individual to prove or disprove hess s law introduction thermodynamics is the study of energy exchanged between the system and the surroundings

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web 3 12 hess s law in this experiment you will measure the amount of heat released in these three related exothermic reactions 1 naoh s na aq oh aq h 1 2 naoh s h aq cl aq h 2 o na aq cl aq h 2 3