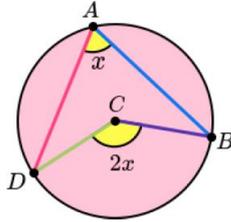




## Circle Theorems

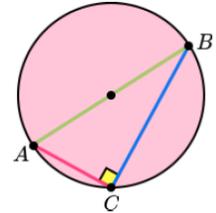
### Angle at the centre theorem:

The angle at the centre of a circle is twice the angle at the circumference of the circle from the same arc.



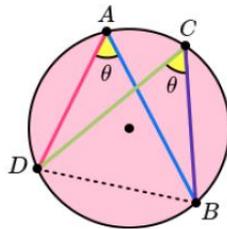
### Angles in a semicircle:

The angle formed in a semicircle is always a right angle.



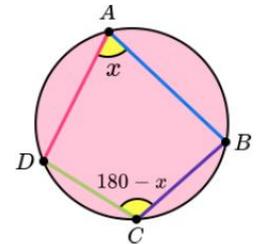
### Angles in the same segment theorem:

Angles in the same segment are always equal.



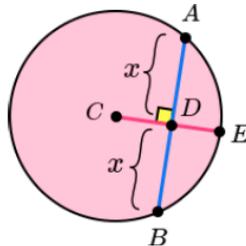
### Cyclic Quadrilateral:

Opposite angles of a cyclic quadrilateral add up to  $180^\circ$   
i.e.  $b + d = a + c = 180^\circ$



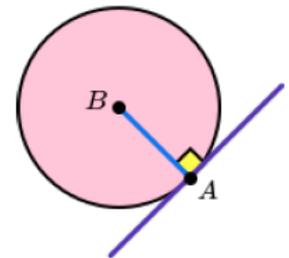
### Chord of a circle:

The perpendicular line from the centre of a circle to a chord, bisects the chord.



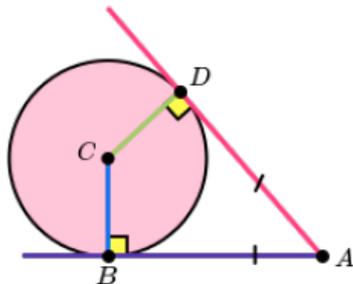
### Tangent of a circle:

The angle between a tangent and the radius, at the point where the tangent touches the circle, is a right angle.



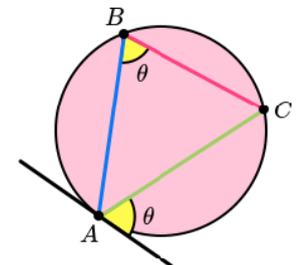
### Tangent from external point:

Two tangents drawn from a point to a circle are equal.



### Alternate segment theorem:

The angle between a tangent and a chord is equal to the angle at the circumference in the alternate segment.





# BROAD ROOT SCHOLARS ACADEMY

FROM BASICS TO ADVANCE.....

COMPLETE GUIDANCE FOR BOARD + NEET/JEE

[ OLYMPIAD | CUET-UG | IPMAT | JIPMAT | IISC | IISER | NISER | NDA ]

## FOUNDATION PROGRAMME

[Class VIII-X]

-  GENERAL MATHEMATICS
-  ADVANCED MATHEMATICS
-  GENERAL SCIENCE
-  Extended/Core MATHEMATICS  
[Cambridge IGCSE]

## INTEGRATED PROGRAMME

[Class XI-XII]

-  PHYSICS
-  CHEMISTRY
-  MATHEMATICS [Core/Applied]
-  BIOLOGY

## HOW LEARNING HAPPENS HERE

-  CONCEPT CLARITY FIRST
-  REGULAR TESTS + FEEDBACK
-  DOUBT CLEARING SESSIONS
-  PERSONAL ATTENTION TO EVERY STUDENT
-  NO ROTE LEARNING METHODS

RESULTS ARE A BY-PRODUCT OF THE PROCESS

## IS THIS COACHING CENTRE RIGHT FOR YOUR CHILD?

### DOES YOUR CHILD

-  STRUGGLE WITH CONCEPT?
-  NEED PERSONAL ATTENTION?
-  AFRAID OF MATHS & SCIENCE?
-  WANT STRONG FUNDAMENTALS?
-  HATE ROTE LEARNING?

IF YES, THEN YOU'RE IN THE RIGHT PLACE.

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