**Aarambh Classes**

**Class IX**

**MATHS TEST**

**CIRCLES**

**TIME : 1 HOUR M.MARKS : 20**

1. Prove that if chords of congruent circles subtend equal angles at their centres,then the chords are equal .
2. If two circles intersect at two points ,prove that their centres lie on the perpendicular bisector of the common chord .
3. If two equal chords of a circle intersect within the circle ,prove that the line joining the point of intersection to the centre makes equal angles with the chords .
4. If the diagonals of a cyclic quadrilateral are diameters of the circle through the vertices of the quadrilateral ,prove that it is a rectangle .
5. Prove that a cyclic parallelogram is a rectangle .