



MM 25

Circles

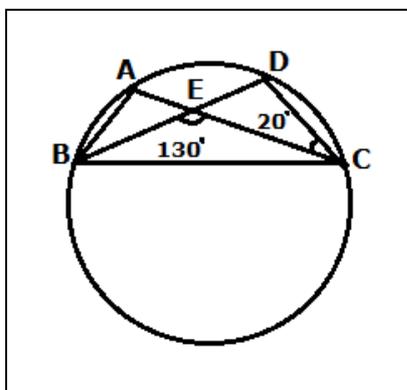
Time 50 Minutes

Section A - 1 Marks Each

1. A parallelogram which is not a _____ cannot be inscribed in a circle.

Section B - 2 Marks Each

2. In Figure A, B, C and D are four points on a circle. AC and BD intersect at a point E such that $\angle BEC = 130^\circ$ and $\angle ECD = 20^\circ$. Find $\angle BAC$.



3. Prove that if chords of congruent circles subtend equal angles at their centres, then the chords are equal.

Section B - 3 Marks Each

7. Suppose you are given a circle. Give a construction to find its centre.
8. If the non-parallel sides of a trapezium are equal, prove that it is cyclic.
9. Prove that the quadrilateral formed (if possible) by the internal angle bisectors of any quadrilateral is cyclic.

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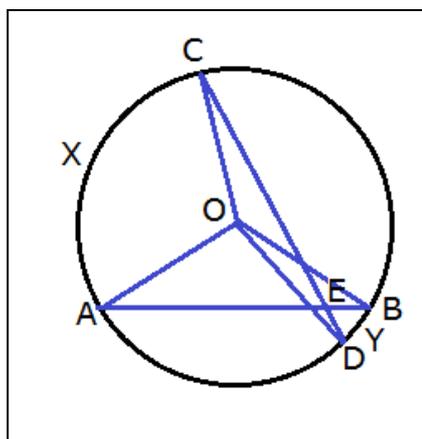
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Section D 4 Marks Each

10. The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.
11. A circular park of radius r metre is situated in a colony. Three boys Anubhav, Prince and Vishal are sitting at equal distance on its boundary each having a toy telephone in his hands to talk each other. Find the radius of the circle given length of string of each phone is 30 metre.
12. Prove that angle bisector of any angle of a triangle and perpendicular bisector of the opposite side if intersect, they will intersect on the circumcircle of the triangle.
13. In Figure, AB and CD are two chords of a circle intersecting each other at point E. Prove that $\angle AEC = \frac{1}{2}$ (Angle subtended by arc CXA at centre + angle subtended by arc DYB at the centre)



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