SARASWATI BAL MANDIR, PASCHIM VIHAR

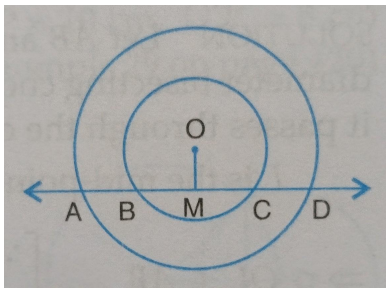
ASSIGNMENT

CLASS: IX

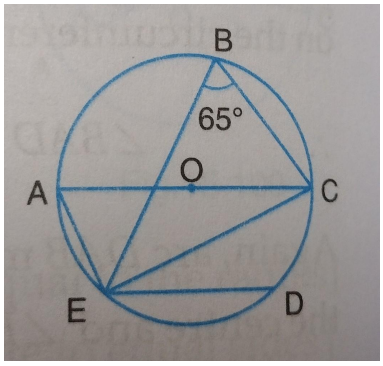
SUBJECT: MATHEMATICS

CHAPTERS - CIRCLES

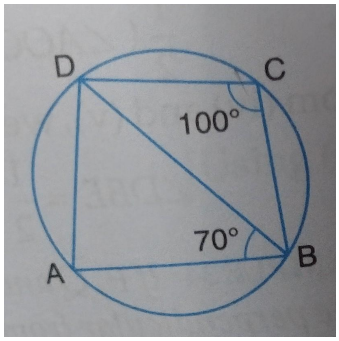
1. Find the length of a chord which is at a distance of 5 cm from the centre of a circle of radius 13 cm.
2. Two concentric circles with centre O have A,B,C,D as the points of intersection with the line L. If AD = 12 cm and BC = 8 cm find the length of the AB,CD,AC and BD.



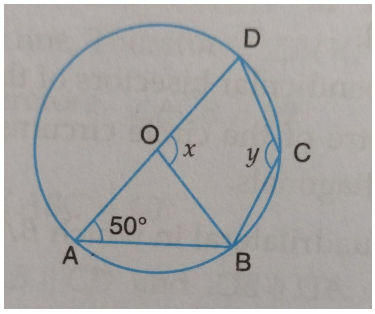
3. The chord ED is parallel to the diameter AC of the circle. Given $\angle$CBE = 65°, calculate $\angle$DEC.



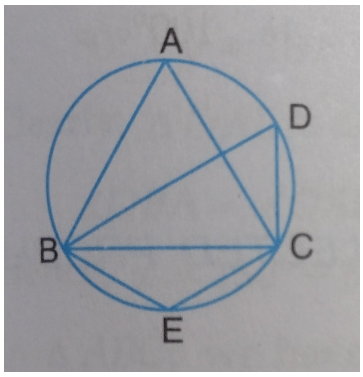
4. A quadrilateral ABCD is inscribed in a circle such that AB is a diameter and $\angle$ADC = 130°. Find $\angle$BAC.
5. ABCD is a cyclic quadrilateral. $\angle$BCD = 100° and $\angle$ABD = 70°. Find $\angle$ADB.



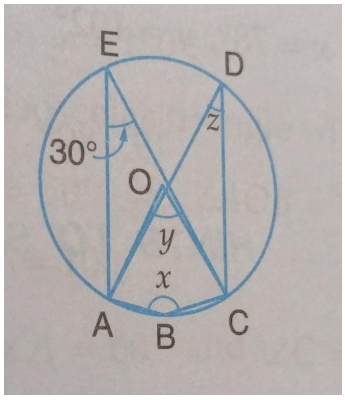
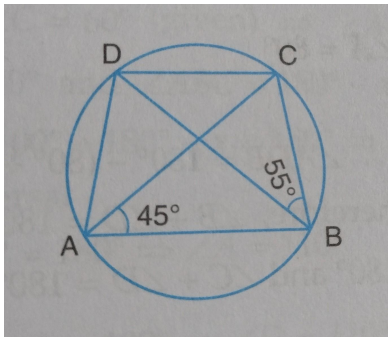
6. O is the centre of the circle and $\angle$DAB = 50°. Calculate the values of x and y.



7. If ABC is an equilateral triangle . Find $\angle$BDC and $\angle$BEC.



8. O is the centre of the circle. If $\angle$ CEA =30°, find the values of x,y and z.



9. ABCD is a cyclic quadrilateral in which AC and BD are its diagonals. If $\angle$DBC = 55° and $\angle$BAC = 45°, find $\angle$BCD.