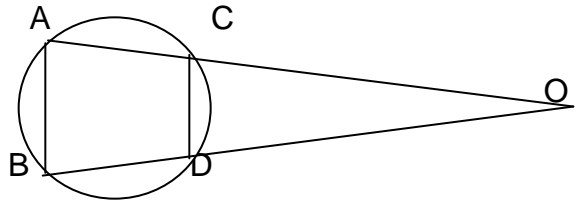
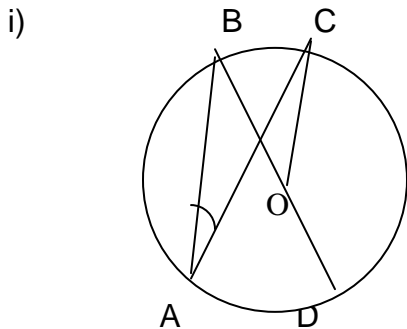


- 1. Determine the length of the chord which is at a distance of 12cm from the centre of the circle of radius 13cm.
- 2. Given an arc of a circle then complete the circle.
- 3. PQ and RQ are chords of a circle equidistant from the centre. Prove that the diameter passing through Q bisects $\angle PQR$.
- 4. The lengths of two parallel chords of a circle are 6cm and 8cm are at opposite sides of the centre. If the smaller chord is at a distance 4cm from the centre, what is the distance of the other chord from the centre.
- 5. AB and CD are two parallel chords of a circle such that AB = 10cm and CD = 24cm. The chords are at opposite sides of the centre and distance between them is 17cm. Find the radius of the circle.
- 6. ABCD is a cyclic quadrilateral. If AC bisects both angles A and C, then prove that $\angle ABC = 90^\circ$.
- 7. AB and BC are two chords of a circle whose centre is O such that $\angle ABO = \angle CBO$. Prove that AB = CB.

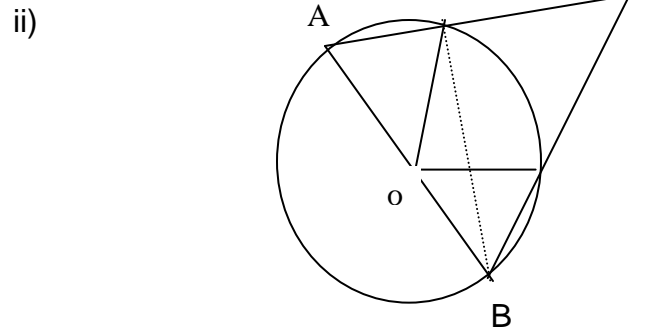
- 8. AB and CD are two parallel chords of a circle and lines OA and OB intersect each other at O. Prove that $OA = OB$



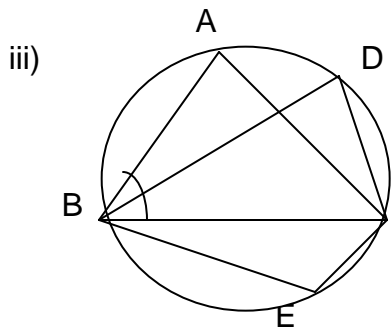
- 9. Determine the unknown angles in each of the following circles with centre O:



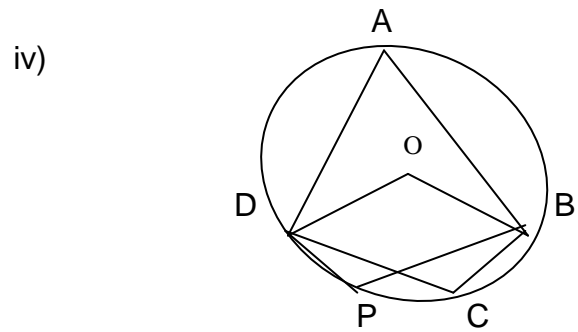
$\angle COD = 100^\circ$, find $\angle BAC$



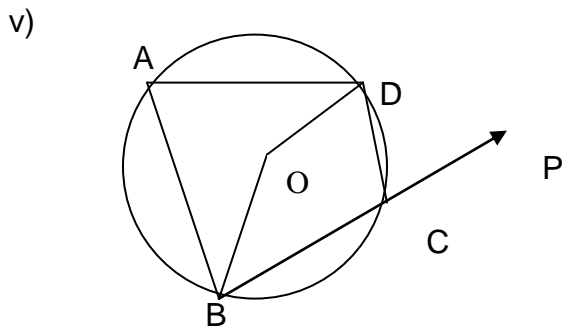
$\angle COE = 50^\circ$, find $\angle CDE$



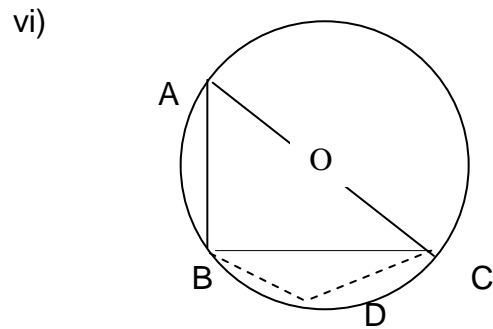
$AB = AC$ and $\angle ABC = 50^\circ$
Find $\angle BDC$ and $\angle BEC$.



$\angle BOD = 160^\circ$. Find:
 $\angle BPD$, $\angle BCD$ and $\angle DAB$

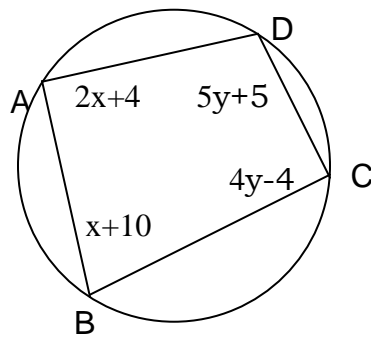


$\angle BOD = 140^\circ$. Find $\angle BAD$ and $\angle DCP$.



$BD = DC$, $\angle BAC = 30^\circ$. Find $\angle BCA$,
 $\angle DCB$, $\angle DBC$ and $\angle BDC$

10. In the given figure find the values of x and y .



-----End-----