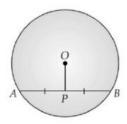


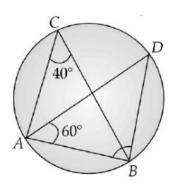
Concept_Grade-9_Circles

Basic Properties of Circles

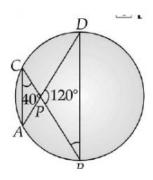
In the given figure, O is the centre of the circle and PA = PB. Find
∠OPA.



2. In the given figure, A, B, C and D are the points on a circle such that ∠ACB= 40° and ∠DAB = 60°, the measure of ∠DBA is............

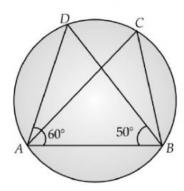


3. In the given figure, \angle ACP = 40° and \angle BPD = 120°, then \angle CBD=





4. In the figure, if $\angle DAB = 60^{\circ}$, $\angle ABD = 50^{\circ}$, then find $\angle ACB$.



- Prove that " equal chords of a circle subtend equal angles at the centres."
- A chord of length 10 cm is at a distance of 12 cm from the centre of a circle. Find the radius of the circle.
- 7. In the given figure, AB and CD are two chords of a circle with centre O such that MP = NP. If OM \perp AB and ON \perp DC, show that AB = CD.
- 8. If O is the circumcentre of a \triangle ABC and OD \perp BC, then prove that \angle BOD = \angle BAC

