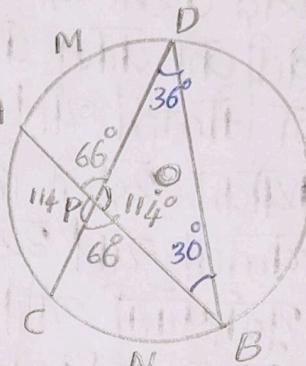


Assignment

- I) In the figure the length of the arc  $\text{CNB}$  is  $\frac{1}{5}$  of the perimeter of the circle and the length of the arc  $\text{AMD}$  is  $\frac{1}{6}$  of the perimeter of the circle.
- What is the measure of central angle of the arc  $\text{CNB}$ ?
  - Find the measure of  $\angle \text{CDB}$ ,  $\angle \text{ABD}$  and  $\angle \text{APD}$ .

Ans) a) Central angle of arc  $\text{CNB}$

$$\begin{aligned}\text{CNB} &= \frac{1}{5} \times 360^\circ \\ &= 72^\circ\end{aligned}$$



b) Central angle of arc  $\text{CNB} = 72^\circ$

$$\therefore \angle \text{CDB} = \frac{72^\circ}{2} = \underline{\underline{36^\circ}}$$

Central angle of arc  $\text{AMD} = 60^\circ \left[ \frac{1}{6} \times 360^\circ \right]$

$$\therefore \angle \text{ABD} = \frac{60^\circ}{2} = \underline{\underline{30^\circ}}$$

$$\therefore \angle \text{APD} = 36^\circ + 30^\circ = \underline{\underline{66^\circ}}$$