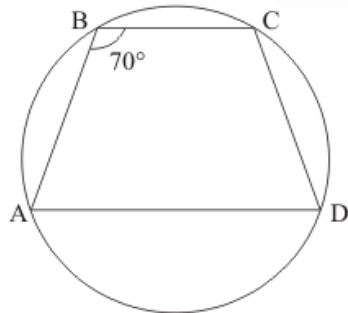




Circles Ex 16.5 Q27

**Answer :**

If , in cyclic quadrilateral  $\angle B = 70^\circ$  , then we have to find the other three angles.



Since, AD is parallel to BC, so,

$$\angle B + \angle A = 180 \text{ (adjacent interior angles)}$$

$$70 + \angle A = 180$$

$$\Rightarrow \angle A = 180 - 70 = 110^\circ$$

Now, since ABCD is cyclic quadrilateral, so

$$\angle A + \angle C = 180$$

$$\Rightarrow 110 + \angle C = 180$$

$$\Rightarrow \angle C = 180 - 110 = 70^\circ$$

And,

$$\angle B + \angle D = 180$$

$$\Rightarrow 70 + \angle D = 180$$

$$\Rightarrow \angle D = 180 - 70 = 110^\circ$$

Hence,  $\angle A = 110^\circ$ ,  $\angle C = 70^\circ$  and  $\angle D = 110^\circ$

\*\*\*\*\* END \*\*\*\*\*