CLASS-9
CHAPTER-10
CIRCLES

write **True** or **False** and justify your answer in each of the following:

1. Two chords AB and CD of a circle are each at distances $4cm$ from the centre The $AB = CD$.

2. Two chords AB and AC of a circle with centre O are an the opposite sides of OA Then $\angle 0AB = \angle 0AC$

3. Two congruent circles with centres 0 and 0 intersect at two points A and B Then $\angle AOB = \angle AOB$

4. Through three collinear points a circle can be drawn

5. A circle of radius $3cm$ can be drawn through two points A, B such that $AB = 6cm$

6. If AOB is a diameter of a circle and C is a point on the circle, then $AC^2 + B^2 = AB^2$.

7. $ABCD$ is a cyclic quadrilateral such that $\angle A = 90°, \angle B = 70°, \angle C = 95°$ and $\angle D = 105°$

8. If A,B,C,D are four points such that $\angle BAC = 30°, \angle BDC = 60°$, then D is the centre of the circle through A,B and C.

9. If A,B,C and D are four points such that $\angle BAC = 45°$ and $\angle BDC = 45°$, then A,B,C,D are concyclic.

10. In fig 1 if AOB is a diameter and $\angle ADC = 120°$ then $\angle CAB = 30°$

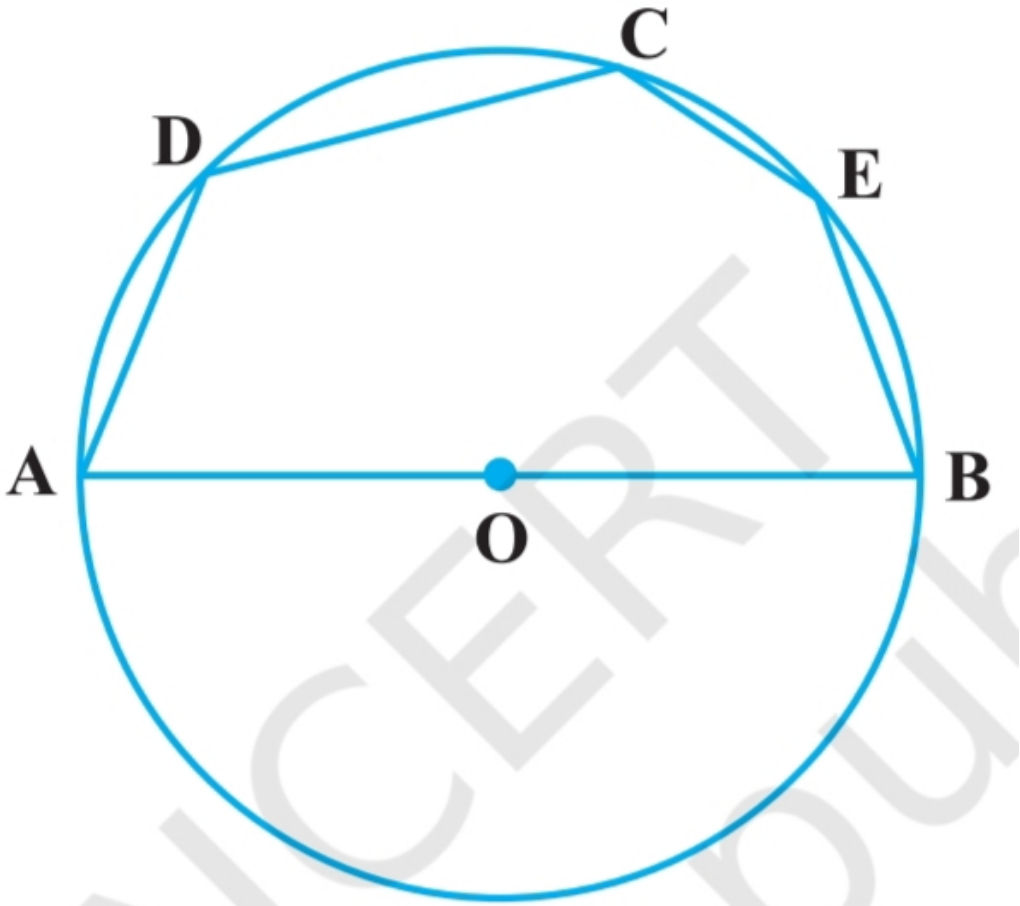

Figure 1