CHAPTER 18

CIRCLES

More Questions for Practice

1. In Fig. 18.1, Δ ABC is inscribed in a circle with centre O. If ∠ACB = 40°, find ∠ABC.

2. In Fig 18.2, Δ ABC is inscribed in a circle with centre O. If ∠ABC = 34°, find ∠ACB.

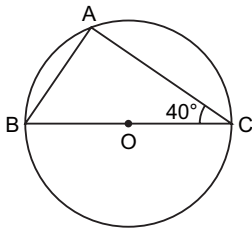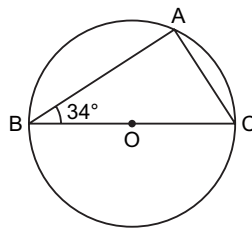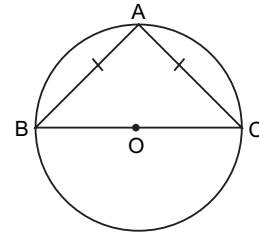| Fig. 18.1 | Fig. 18.2 | Fig. 18.3 |

3. In Fig. 18.3, O is the centre of a circle. Δ ABC is inscribed in this circle. If AB = AC, find ∠ABC and ∠ACB.

4. In Fig. 18.4, O is the centre of a circle. If ∠ABC = 54°, find ∠ACB. Also, if ∠BCD = 43°, find ∠CBD.
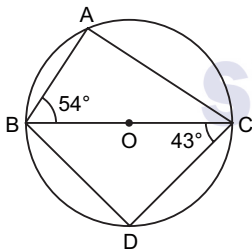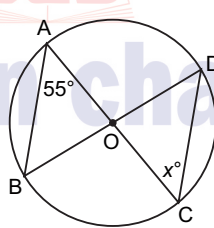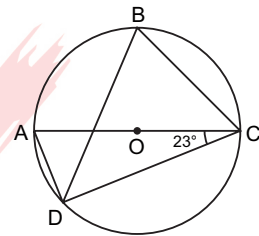

| Fig. 18.4 | Fig. 18.5 | Fig. 18.6 |

5. In Fig. 18.5, find the value of x.

6. In Fig. 18.6, find ∠DBC.

7. In Fig. 18.7, AOC is a diameter and arc AB = $\dfrac{1}{2}$ arc BC. What is the measure of ∠BOC?

Fig. 18.7
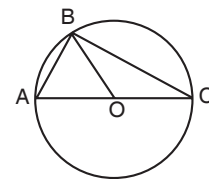

ANSWERS

1. 50°   2. 56°   3. 45°, 45°   4. ∠ACB = 36°; ∠CBD = 47°;

5. $x = 55°$ 6. 67°   7. 120°.