CIRCLES

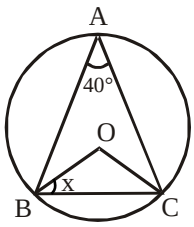
ANGLE SUBTENDED BY AN ARC OF A CIRCLE

EXERCISE

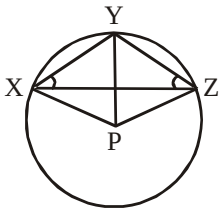
Q.1 O is the centre of the circle. If $\angle BOA = 90°$ and $\angle COA = 110°$, find $\angle BAC$.

Q.2 O is the centre of the circle. If $\angle BAC = 50°$, find $\angle OBC$.

Q.3 Find the value of x from the given figure, in which O is the centre of the circle.



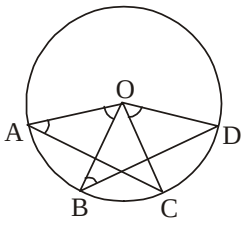
Q.4 P is the centre of the circle. Prove that $\angle XPZ = 2\ (\angle XZY + \angle YXZ)$.



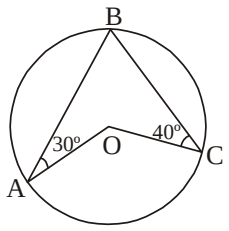
Q.5 In fig. ABC is a triangle in which $\angle BAC = 30º$. Show that BC is the radius of the circumcircle of ΔABC, whose centre is O.

Q.6 O is the centre of the circle. If $\angle BOA = 90°$ and $\angle COA = 110°$, find $\angle BAC$.

Q.7 In figure, if $\overset{\frown}{AB} \cong \overset{\frown}{CD}$, prove that $\angle A = \angle B$.



Q.8 In figure calculate the measure of ∠AOC.



ANSWER KEY

1. ∠BAC = 80°

2. ∠OBC = 40°.

3. x = 50°.

6. ∠BAC = 80°

8. 70º