CIRCLES

Dec 2023

- 1. In Figure-1, from an external point P, two tangent PQ and PR are drawn to a circle of radius 4cm with center $O.If \angle PQR = 90^{\circ}$, then length of PQ is
 - (a) 3*cm*
 - (b) 4*cm*
 - (c) 2*cm*
 - (d) $2\sqrt{2}cm$

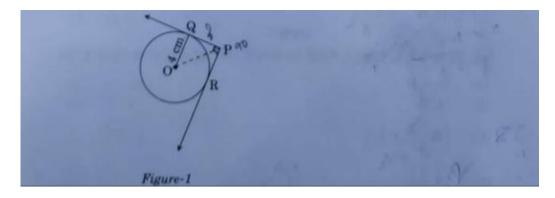


Figure 1

2. In Figure-2, PQ is tangent to the circe with center at O, at the point B. If $\angle AOB = 100^{\circ}$, then $\angle ABP$ is equal to

- (a) 50°
- (b) 40°
- (c) 60°
- (d) 80°

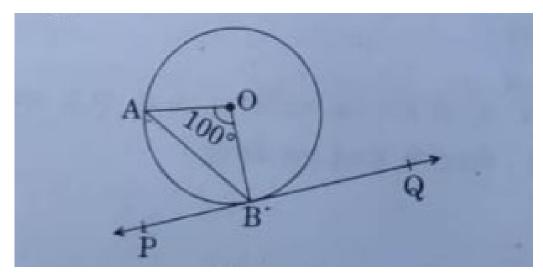


Figure 2

3. In Figure-3, quadrilateral ABCD is drawn to circumscribe a circle. prove that

$$AB+CD=BC+AD$$

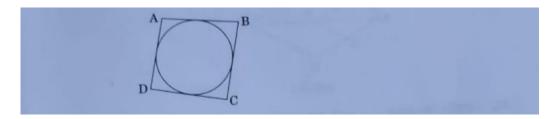


Figure 3

4. In Figure-4,fid the perimeter of $\triangle ABC$, if AP=12cm

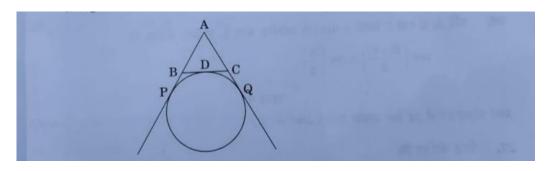


Figure 4