CIRCLES

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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$\angle PQR = 90°$, then length of PQ is

   (a) $3cm$

   (b) $4cm$

   (c) $2cm$

   (d) $2\sqrt{2}cm$

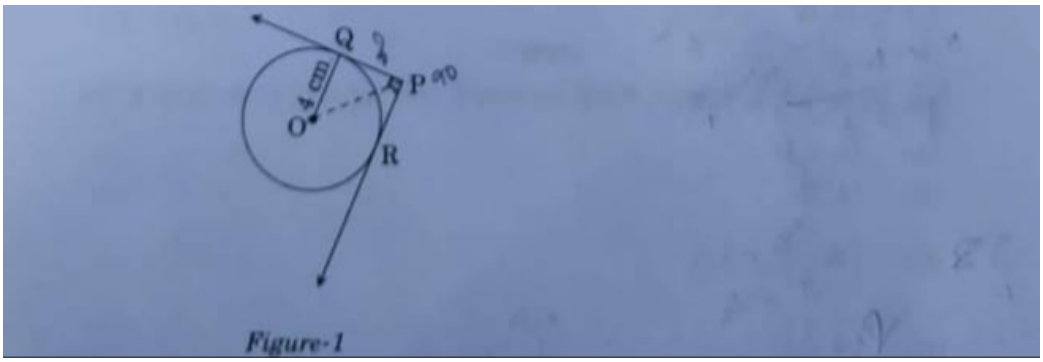

Figure 1

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

   (a) $50°$

(b) 40°

(c) 60°

(d) 80°

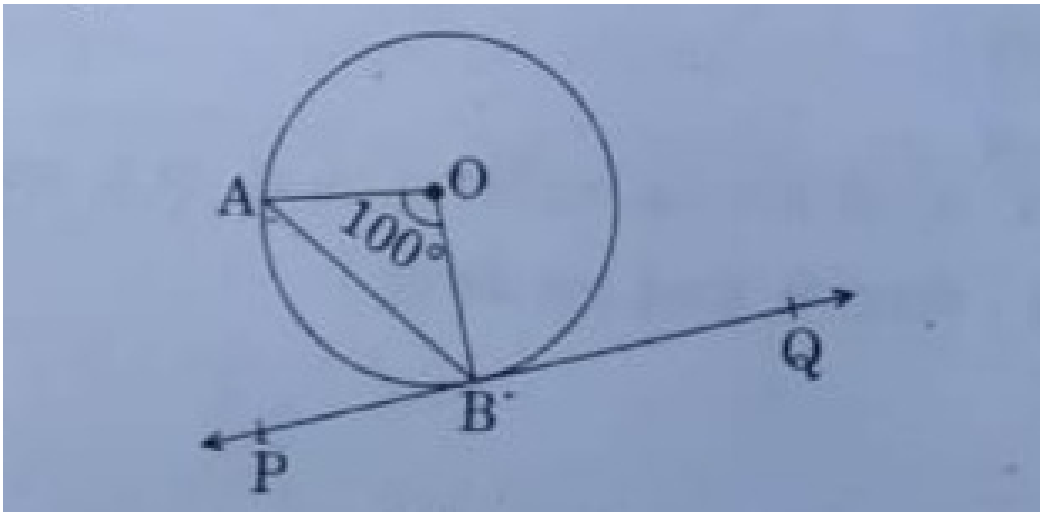

Figure 2

3. In Figure-3, quadrilateral $ABCD$ is drawn to circumscribe a circle. prove that
   $AB + CD = BC + AD$

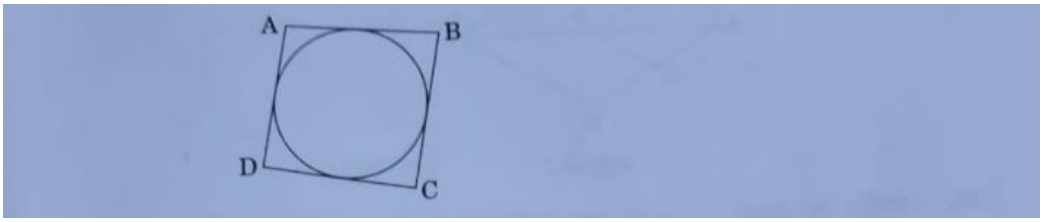

Figure 3

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

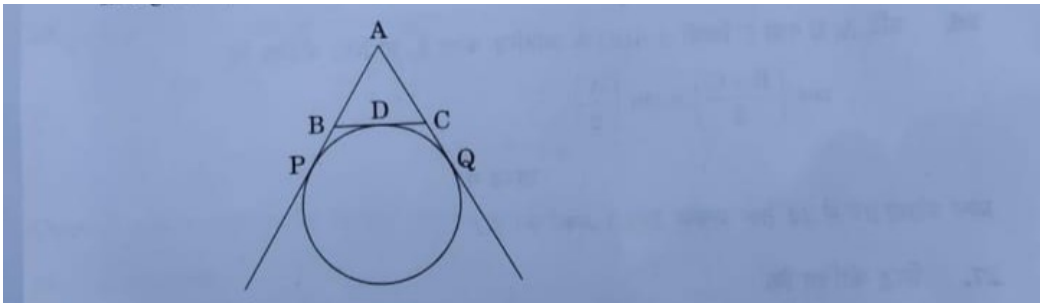

Figure 4