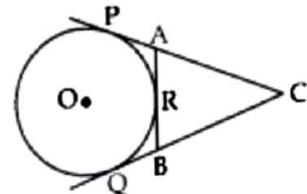
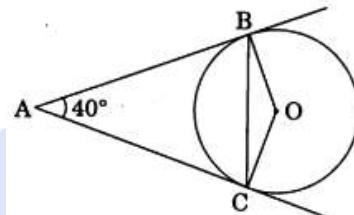


1. In given figure, CP and CQ are tangents to a circle with centre O. ARB is another tangent touching the circle at R. If $CP = 11\text{cm}$ and $BC = 6\text{cm}$ then the length of BR is



2. In the given figure, A B and A C are tangents to the circle with centre O such that $\angle BAC = 40^\circ$, then $\angle BOC$ is equal to

(a) 40° (b) 50°
(c) 140° (d) 150°



3. If TP and TQ are the two tangents to a circle with centre O so that $\angle POQ = 110^\circ$, then $\angle PTQ$ is equal to

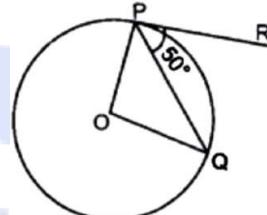
(a) 60° (b) 70° (c) 80° (d) 90°

4. A tangent intersects the circle at:
(a) One point (b) Two distinct point (c) At the circle (d) None of the above

5. A circle can have parallel tangents at a single time.
(a) One (b) Two (c) Three (d) Four

6. In figure if O is centre of a circle, PQ is a chord and the tangent PR at P makes an angle of 50° with PQ , then $\angle POQ$ is equal to

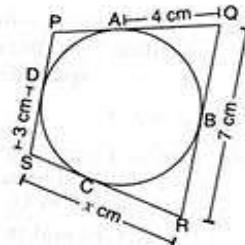
(a) 100° (b) 80°
(c) 90° (d) 75°



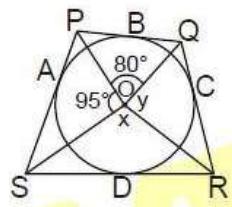
7. If angle between two radii of a circle is 130° , the angle between the tangents at the ends of radii is
(a) 90° (b) 50° (c) 70° (d) 40°

8. In Figure, if $AQ = 4\text{cm}$, $QR = 7\text{cm}$, $DS = 3\text{cm}$, then $x =$

(a) 6cm (b) 8cm



11. In Figure, if quadrilateral PQRS circumscribes a circle, then

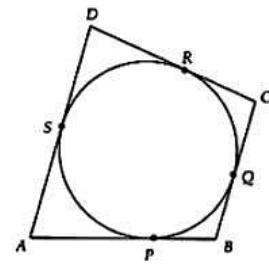


(a) $x = 95^\circ, y = 95^\circ$ (b) $x = 100^\circ, y = 90^\circ$ (c) $x = 100^\circ, y = 85^\circ$ (d) $x = 85^\circ, y = 90^\circ$



12. In Figure, a quadrilateral ABCD is drawn to circumscribe a circle such that its sides AB, BC, CD and AD touch the circle at P, Q, R and S respectively. If $AB = x\text{cm}$, $BC = 7\text{cm}$, $CR = 3\text{cm}$ and $AS = 5\text{cm}$, then

X =



13. The length of the tangent AP, from an external point A is 24cm. If the distance of the point A from the centre O of the circle is 25cm, then the diameter of the circle is

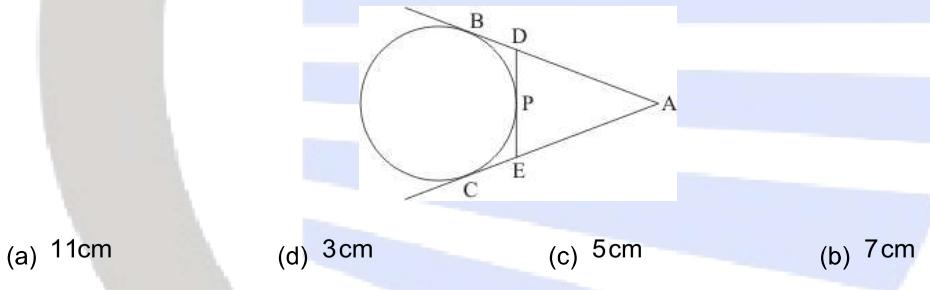
(a) 15cm (b) 14cm (c) 7cm (d) 12cm

(a) 15cm (b) 14cm (c) 7cm (d) 12cm

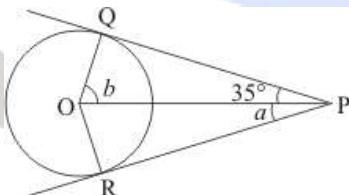
14. The length of the tangent AP, from an external point A is 24cm. If the distance of the point A from the centre O of the circle is 25cm, then the diameter of the circle is

(a) 15cm (b) 14cm (c) 7cm (d) 12cm

15. In Fig, if $AB = 8\text{cm}$ and $PE = 3\text{cm}$, then $AE =$

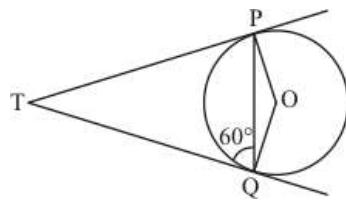


16. In Fig, PQ and PR are tangents drawn from P to a circle with centre O. If $\angle OPQ = 35^\circ$, the



(a) $a = 30^\circ, b = 60^\circ$ (b) $a = 45^\circ, b = 45^\circ$ (c) $a = 40^\circ, b = 50^\circ$ (d) $a = 35^\circ, b = 55^\circ$

17. In Fig., if TP and TQ are tangents drawn from an external point T to a circle with centre such that $\angle TQP = 60^\circ$, then $\angle OPQ =$



(a) 25° (b) 30° (c) 40° (d) 60°

18. If two tangents inclined at an angle of 60° are drawn to a circle of radius 3 cm, then length of each tangent is equal to

(a) $\frac{3\sqrt{3}}{2}$ cm (b) 6 cm (c) 3 cm (d) $3\sqrt{3}$ cm

