

JSUNIL TUTORIAL

PUNJABI COLONY GALI 01

Circle

Section A. 1 Mark Each

Q.1 if a line segment, having its end point on a circle, is known as

- (a) Chord (b) Secant (c) Tangent (d) none of these

Q.2 number of tangents that can be drawn through a point which is inside the circle is

- (a) 3 (b) 2 (c) 1 (d) 0

Q.3 A line through point of contact and passing through centre of circle is known as

- (a) tangent (b) Chord (c) normal (d) segment

Q.4 A circle is inscribed in a triangle with sides 3, 4 and 5 cm. The radius of the circle is

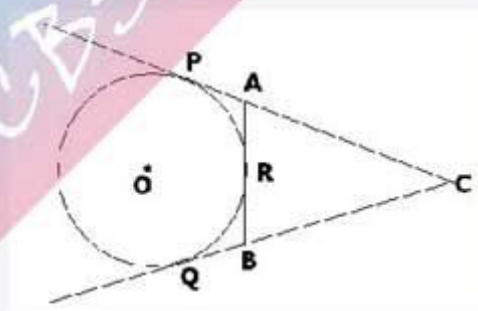
- (a) 6 cm (b) 5 cm (c) 4 cm (d) none of these

Q.5 Distance between two parallel lines is 10 cm. The radius of circle which will touch both two lines is

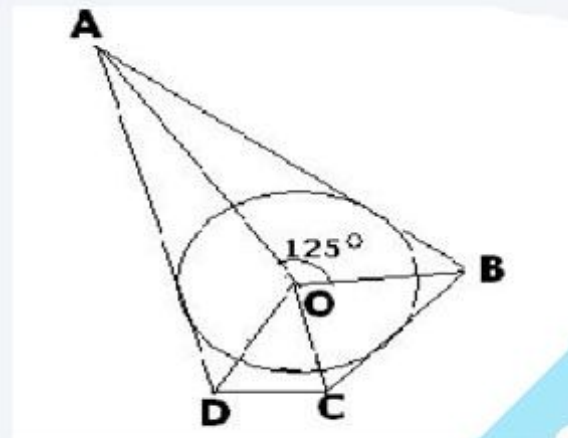
- (a) 5cm (b) 7 cm (c) 12 cm (d) None of these

Section B. 2 Mark Each

Q.6 In figure, CP and CQ are tangents to a circle with centre O. ARB is another tangent touching the circle at R. If CP = 12 cm, and BC = 8cm, then find the length of BR.



Q.7 In figure AB is a chord of the circle and AOC is its diameter such that $\angle ABC = 50^\circ$. If AT is the tangent to the circle at the point A, find $\angle BAT$



Q.8 Two tangents PA and PB are drawn to the circle with centre, such that $\angle APB = 120^\circ$. Prove that $OP = 2 AP$.

Section c 3 Mark Each

Q.11 The tangent at a point C of a circle and a diameter AB when extended intersect at P. If $\angle PCA = 110^\circ$, find $\angle CBA$.

Q.12 In the figure. X.Y. are two parallel tangents to a circle with Centre O and another tangent AB with point of contact C intersecting XY at A and X.Y. at B. Prove that $\angle AOB = 90^\circ$.

