

CLASS 10

MATHS

REVISION NOTES

Class 10 Maths Chapter 10 Revision Notes – Circles

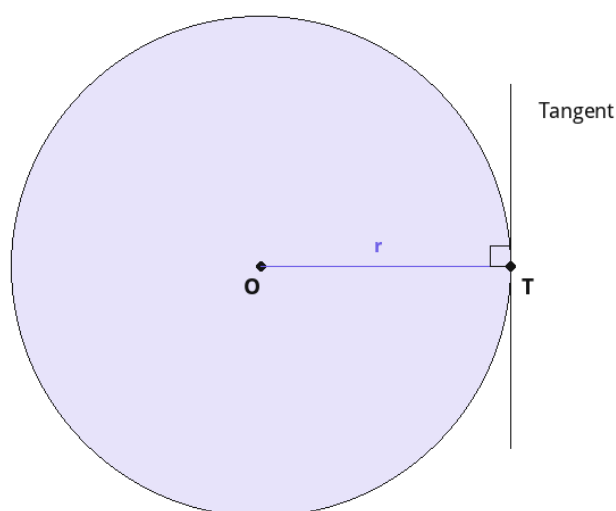
Revising the Circles chapter in Class 10 Maths? These notes cover every theorem and result from Chapter 10 in one quick-reference page.

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Revising the **Circles chapter in Class 10 Maths**? These notes cover every theorem and result from Chapter 10 in one quick-reference page.



A tangent to a circle is perpendicular to the radius at the point of contact ($OT \perp \text{tangent at } T$).

Reference figure — tangent to a circle

Class 10 Maths Chapter 10 – Revision Notes: Circles

Tangent: a line that touches a circle at exactly one point (the point of contact); a secant touches it at two points.

Core theorem 1: the tangent to a circle is perpendicular to the radius at the point of contact.

Core theorem 2: the lengths of the two tangents drawn from an external point to a circle are equal.

Tangent-length formula: for a point at distance d from the centre of a circle of radius r , tangent length $= \sqrt{(d^2 - r^2)}$.

Key results built on the equal-tangent theorem: a parallelogram circumscribing a circle is a rhombus; for a quadrilateral circumscribing a circle, sum of opposite sides are equal ($AB + CD = AD + BC$).

Angle result: the angle between two tangents from an external point ($\angle PTQ$) and the angle subtended by the chord of contact at the centre ($\angle POQ$) are supplementary; also $\angle PTQ = 2\angle OPQ$.

Construction skill: know how to draw a tangent and a secant parallel to a given line.

Syllabus note (2026-27): 2 exercises — 10.1 (4 questions) and 10.2 (13 questions), 17 questions total.

Class 10 Mathematics Chapter 10 – Solutions and Important Questions

Need full answers or more practice? See the [Class 10 Mathematics Chapter 10 Solutions](#) and [Class 10 Mathematics Chapter 10 Extra Questions](#). These Class 10 Mathematics Chapter 10 notes are ideal for quick revision just before exams.

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