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Class 10 Maths

Important Theorems & Proofs

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1945 P, Sainik Colony, Sector 49, Faridabad, Haryana 121001

Call / WhatsApp: +91 98916 12831 (9891612831) • www.topperhubacademy.com

Triangles

- Basic Proportionality Theorem (Thales): a line parallel to one side divides the other two sides proportionally.
- Criteria for similarity: AAA, SAS and SSS.
- Areas of similar triangles are proportional to the squares of corresponding sides.
- Pythagoras theorem and its converse.

Circles

- The tangent at any point of a circle is perpendicular to the radius through that point.
- Lengths of tangents drawn from an external point are equal.
- Equal chords subtend equal angles at the centre.
- The angle in a semicircle is a right angle.

Exam Tips

- Learn to write the Given, To Prove, Construction and Proof steps.
- Draw a neat, labelled figure for every proof.
- State the theorem name where you use it.
- Proofs carry easy, guaranteed marks – do not skip them.

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