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CBSE FOUNDATION BOOSTER

Class 11 Maths

Complete Formula Sheet

A free study resource by **Toppers Hub Academy**

Founder & Director: **Mrs. Neeru Nanda**

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Algebra

- Sets, relations and functions basics.
- Permutations: $nPr = \frac{n!}{(n-r)!}$; Combinations: $nCr = \frac{n!}{r!(n-r)!}$.
- Binomial theorem and general term.
- Sequences and series: AP, GP and their sums.

Trigonometry & Complex Numbers

- Trigonometric ratios and identities.
- $\sin(A+B)$, $\cos(A+B)$ and multiple-angle formulas.
- Complex numbers: modulus and argument.
- Quadratic equations with complex roots.

Coordinate Geometry & Calculus

- Straight lines: slope and various forms.
- Conic sections: circle, parabola, ellipse, hyperbola.
- Introduction to three-dimensional geometry.
- Limits and derivatives basics.

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