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Class 9 Maths

Complete Formula Sheet

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Number & Algebra

- $(a+b)^2 = a^2 + 2ab + b^2$; $(a-b)^2 = a^2 - 2ab + b^2$.
- $a^2 - b^2 = (a+b)(a-b)$.
- $(a+b+c)^2 = a^2+b^2+c^2+2ab+2bc+2ca$.
- $a^3 + b^3 = (a+b)(a^2 - ab + b^2)$.

Geometry & Mensuration

- Area of triangle = $\frac{1}{2} \times \text{base} \times \text{height}$.
- Heron's formula: $\text{area} = \sqrt{s(s-a)(s-b)(s-c)}$.
- Surface area of sphere = $4(\pi)r^2$; volume = $\frac{4}{3}(\pi)r^3$.
- Volume of cylinder = $(\pi)r^2 h$; cone = $\frac{1}{3}(\pi)r^2 h$.

Coordinate & Stats

- Distance between points uses the coordinate plane.
- Mean = $\frac{\text{sum of observations}}{\text{number of observations}}$.
- Median is the middle value; mode is most frequent.
- Learn to plot points in all four quadrants.

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