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Class 10 Maths

Complete Formula Sheet

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Algebra

- Quadratic roots: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$.
- Discriminant $D = b^2 - 4ac$ decides the nature of roots.
- AP nth term: $a_n = a + (n-1)d$.
- AP sum: $S_n = \frac{n}{2} [2a + (n-1)d]$.

Geometry & Trigonometry

- Distance formula: $\sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$.
- Section formula and midpoint formula.
- $\sin^2(A) + \cos^2(A) = 1$; $1 + \tan^2(A) = \sec^2(A)$.
- Values at 0, 30, 45, 60 and 90 degrees.

Mensuration & Statistics

- Surface area and volume of cylinder, cone and sphere.
- Area of sector = $\frac{\theta}{360} \times \pi r^2$.
- Mean, median and mode for grouped data.
- Probability = favourable outcomes / total outcomes.

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