

I'm not a bot





50 Maths Formulas PDFs by InstaPDF cover various concepts for CBSE syllabus, classes 6 to 12. Students can easily solve math problems with basic formulas based on algebra, arithmetic, and geometry fundamentals. Key formulas include algebra identities, Pythagoras theorem, series & sequence, mensuration, calculus, probability & statistics, trigonometry, matrices, etc. Maths Formulas for Class 6: - Undefined refers to anything divided by zero. - A number is divisible by three if the total of its digits is a multiple of three. - A polygon with four sides is called a Quadrilateral. - Perimeter of Square = 4 × Length of side - Area of Rectangle = length × breadth Maths Formulas for Class 7: - Profit Percentage = (Profit / Cost price) × 100 - Simple Interest = (Principal × Rate × Time) / 100 - Product of rational numbers = (Product of Numerators) / (Product of Denominators) - Perimeter of Rectangle = 2 × (Length + Breadth) Maths Formulas for Class 8: - Additive inverse of rational number: a/b = -b/a - Distributives: a(b - c) = ab - ac - Probability of occurrence of an event = Number of outcomes that comprise an event / Total number of outcomes Maths Formulas for Class 9: - Real Numbers: √ab = √a × √b; √(a/b) = √a / √b - Compound Interest formula = Amount - Principal. Amount in case interest is calculated annually = Principal (1 + Rate/100)n \*\*Geometry Formulas\*\* - Area of a hemisphere: 2πr^2 - Volume of a hemisphere: 2πr^3/3 - Lateral surface area of a prism: p × h - Circle formula: x^2 + y^2 = a^2 \*\*Trigonometry Formulas\*\* - Tangent to a circle equation: xa1 + yb1 = a^2 - Pythagorean identity: sin^2θ + cos^2θ = 1 - Trigonometric identities for tan and cot: + tan(90° - θ) = cotθ + cot(90° - θ) = tanθ \*\*Calculus Formulas\*\* - Power rule for integration: ∫x^n dx = (x^(n+1))/(n+1) + C - Exponential rule for integration: ∫e^x dx = e^x + C - Constant multiplication rule for integration: ∫a dx = ax + C - Sum and difference rules for integration: + ∫[f(x) + g(x)] dx = ∫f(x) dx + ∫g(x) dx + ∫[f(x) - g(x)] dx = ∫f(x) dx - ∫g(x) dx \*\*Vector Calculus Formulas\*\* - Commutative and associative laws for addition: + A + B = B + A + A + (B + C) = (A + B) + C - Dot product formula: A · B = |P||Q|cosθ - Cross product formula: A × B = |P||Q|sinθ \*\*Other Formulas\*\* - Distance between two points: PQ = √((x1 - x2)^2 + (y1 - y2)^2 + (z1 - z2)^2) - Cartesian equation of a plane: lx + my + nz = d Engineering and mathematics students can refer to a comprehensive ebook covering various topics from high school to undergraduate level, including economics, physical sciences, and engineering. This digital resource comprises hundreds of mathematical formulas, tables, and diagrams categorized under Number Sets, Algebra, Geometry, Trigonometry, Matrices, Vectors, Analytic Geometry, Calculus, Differential Equations, Series, and Probability Theory. The ebook features an organized table of contents, hyperlinks, and a clear layout allowing users to quickly locate relevant information. This makes it an ideal reference book for students seeking quick access to mathematical formulas. The ebook's main sections are broken down into: - Number Sets - Algebra - Geometry - Trigonometry - Matrices and Determinants - Vectors - Analytic Geometry - Calculus (Differential and Integral) - Differential Equations - Series - Probability Theory This 1300 Math Formulas Book, written by Alex Svirin and available in English, consists of 338 PDF pages. The quality of the PDF is described as "very good," with a linked table of contents. To access the ebook, students can download it from the provided link. Note that the copyright information indicates that the ebook is not owned by the provider but is being shared freely for educational purposes, and the link was already available on the internet.

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