

# Mathematical Formulae

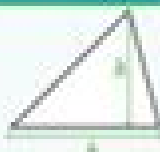
Area of a Rectangle

$$A = l \times w$$



Area of a Triangle

$$A = \frac{1}{2} \times b \times h$$



Area of a Parallelogram

$$A = b \times h$$



Area of a Trapezium

$$A = \frac{1}{2} (a + b)h$$



Circumference of a Circle

$$C = 2\pi r = \pi d$$



Area of a Circle

$$A = \pi r^2$$

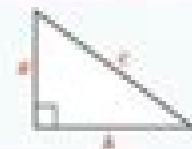
Volume of a Prism

$$V = \text{area of cross section} \times \text{length}$$



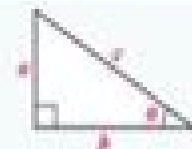
Pythagoras' Theorem

$$a^2 + b^2 = c^2$$



Trigonometry Formulae (right angled triangles)

$$\sin \theta = \frac{a}{c} \quad \cos \theta = \frac{b}{c} \quad \tan \theta = \frac{a}{b}$$



Trigonometry Formulae (any triangle)

Sine rule

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

Cosine rule

$$a^2 = b^2 + c^2 - 2bc \cos A$$

Area

$$A = \frac{1}{2} ab \sin C$$



Compound Interest

$$\text{Total accrued} = P(1 + \frac{r}{100})^n$$

Where  $P$  is the principal amount,  $r$  is the interest rate and  $n$  is number of times that the interest is compounded.

Probability

$$P(A \text{ or } B) = P(A) + P(B) - P(A \text{ and } B)$$

$$P(A \text{ and } B) = P(A \text{ given } B)P(B)$$

$P(A)$  is the probability of outcome  $A$ .

$P(B)$  is the probability of outcome  $B$ .

Quadratic Formula

The solution of  $ax^2 + bx + c = 0$ , where  $a \neq 0$

$$x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$$

# Mathematical Formulae

**Lara Vandini**



## Mathematical Formulae:

The Interpretation of Mathematical Formulae Edwin James Houston, Arthur Edwin Kennelly, 1898      **Smithsonian Mathematical Formulae and Tables of Elliptic Functions** Smithsonian Institution, Edwin Plimpton Adams, Richard Lionel Hippisley, 1922      *Math Formulas and Equations for Students* Peter I. Kattan, 2023-12-29 This is a little book for students who wish to have the essential formulas and equations of mathematics in a single easily accessible source In about 50 pages the 350 most essential mathematical formulas are listed Unlike other large books on this topic there is no need to go through hundreds of pages and thousands of formulas for the student to get the basic equations The author has searched several books on mathematical formulas and tables and selected only those equations which are essential to the student The mathematical formulas and equations listed in this book are useful for students and researchers in various fields including mathematics physics engineering etc Only the most elementary and basic topics are covered including formulas for various geometric shapes several types of functions trigonometric hyperbolic exponential logarithmic etc the quadratic equation analytic geometry derivatives and integrals arithmetic series geometric series and Taylor series      **Handbook of Mathematical Formulas and Integrals** Alan Jeffrey, 2014-05-19 If there is a formula to solve a given problem in mathematics you will find it in Alan Jeffrey's Handbook of Mathematical Formulas and Integrals Thanks to its unique thumb tab indexing feature answers are easy to find based upon the type of problem they solve The Handbook covers important formulas functions relations and methods from algebra trigonometric and exponential functions combinatorics probability matrix theory calculus and vector calculus both ordinary and partial differential equations Fourier series orthogonal polynomials and Laplace transforms Based on Gradshteyn and Ryzhik's Table of Integrals Series and Products Fifth Edition edited by Jeffrey but far more accessible and written with particular attention to the needs of students and practicing scientists and engineers this book is an essential resource Affordable and authoritative it is the first place to look for help and a rewarding place to browse Special thumb tab index throughout the book for ease of use Answers are keyed to the type of problem they solve Formulas are provided for problems across the entire spectrum of Mathematics All equations are sent from a computer checked source code Companion to Gradshteyn Table of Integrals Series and Products Fifth Edition The following features make the Handbook a Better Value than its Competition Less expensive More comprehensive Equations are computer validated with Scientific WorkPlace™ and Mathematica® Superior quality from one of the most respected names in scientific and technical publishing Offers unique thumb tab indexing throughout the book which makes finding answers quick and easy      Math Notebook for Students Peter I. Kattan, 2009-03-26 This is a little book for students to have the essential formulas and equations of mathematics in a single easily accessible source In about 50 pages the 350 most essential mathematical formulas are listed Unlike other large books on this topic there is no need to go through hundreds of pages and thousands of formulas for the student to get the basic equations The author has searched several books on mathematical

formulas and tables and selected only those equations which are essential to the student The mathematical formulas and equations listed in this book are useful for students and researchers in various fields including mathematics physics engineering etc Only the most elementary and basic topics are covered including formulas for various geometric shapes several types of functions trigonometric hyperbolic exponential logarithmic etc the quadratic equation analytic geometry derivatives and integrals arithmetic series geometric series and Taylor series     Mathematical Formulas and Scientific Data C. P. Kothandaraman,2023-03-21 Designed as a quick reference guide for engineers mathematicians scientists and industry professionals this book provides the essential formulas in all areas of mathematics and the key scientific data used in engineering and science Part One covers the mathematical formulas from algebra trigonometry analytic geometry differential and integral calculus and vectors Part Two covers MKS CGS and SI units mechanical units electrical and magnetic units gases elements acoustics materials thermodynamics radioactivity geodetic data astronomical data optics solids organic and inorganic compounds and more Technical terms are defined and theorems and applicable laws are stated and explained in detail This data book is essential for every scientist engineering student and practicing professional Features Covers key reference data in numerous areas of science and engineering Includes mathematical formulas and tables from elementary to advanced topics Defines and explains technical terms and their uses     *A Handbook of Essential Mathematical Formulae* Alan Davies,Diane Crann,2004 Provides formulae for algebra geometry calculus numerical methods and statistics along with tables of standard derivatives and integrals     Mathematical Formulae for Engineering and Science Students Stephen Barnett,Timothy Mathew Cronin,1986     *Intelligent Computer Mathematics* Serge Autexier,2008-07-16 This book constitutes the joint refereed proceedings of the 9th International Conference on Artificial Intelligence and Symbolic Computation AISC 2008 the 15th Symposium on the Integration of Symbolic Computation and Mechanized Reasoning Calculemus 2008 and the 7th International Conference on Mathematical Knowledge Management MKM 2008 held in Birmingham UK in July August as CICM 2008 the Conferences on Intelligent Computer Mathematics The 14 revised full papers for AISC 2008 10 revised full papers for Calculemus 2008 and 18 revised full papers for MKM 2008 plus 5 invited talks were carefully reviewed and selected from a total of 81 submissions for a joint presentation in the book The papers cover different aspects of traditional branches in CS such as computer algebra theorem proving and artificial intelligence in general as well as newly emerging ones such as user interfaces knowledge management and theory exploration thus facilitating the development of integrated mechanized mathematical assistants that will be routinely used by mathematicians computer scientists and engineers in their every day business     *Computers Helping People with Special Needs* Klaus Miesenberger,Christian Bühler,Petr Penaz,2016-07-05 The two volume set LNCS 9758 and 9759 constitutes the refereed proceedings of the 15th International Conference on Computers Helping People with Special Needs ICHP 2015 held in Linz Austria in July 2016 The 115 revised full papers and 48 short papers presented were carefully reviewed and selected from

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electrical wire and circuit breakers are designed to work in tandem with one another and each must be of a proper corresponding size for example 14 2 gauge electrical wire is rated to a maximum of 15 amps and should not be used with any circuit breaker larger than 15 amps 12 2 gauge wiring is rated to a maximum of 20 amps

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