



55 cms / 23 inches (approx.)

90 cms / 36 inches (approx.)



Mathematics Formulae

Useful for : UPSC CSAT, SSC, Banking, Railway, IIT, Engineering & All Other Competitive Examinations



Algebraic Formulae on Expansion of Expressions

$(a+b)^2 = a^2 + 2ab + b^2$
 $(a-b)^2 = a^2 - 2ab + b^2$
 $(a+b)(a-b) = a^2 - b^2$
 $(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$
 $(a+b)^3 = a^3 + 3a^2b + 3ab^2 + b^3$
 $(a-b)^3 = a^3 - 3a^2b + 3ab^2 - b^3$
 $(a+b)(a^2+ab+b^2) = a^3 + b^3$
 $(a-b)(a^2+ab+b^2) = a^3 - b^3$
 $(a+b)^4 = a^4 + 4a^3b + 6a^2b^2 + 4ab^3 + b^4$
 $(a-b)^4 = a^4 - 4a^3b + 6a^2b^2 - 4ab^3 + b^4$
 $(a+b)^5 = a^5 + 5a^4b + 10a^3b^2 + 10a^2b^3 + 5ab^4 + b^5$
 $(a-b)^5 = a^5 - 5a^4b + 10a^3b^2 - 10a^2b^3 + 5ab^4 - b^5$
 $(a+b)^6 = a^6 + 6a^5b + 15a^4b^2 + 20a^3b^3 + 15a^2b^4 + 6ab^5 + b^6$
 $(a-b)^6 = a^6 - 6a^5b + 15a^4b^2 - 20a^3b^3 + 15a^2b^4 - 6ab^5 + b^6$
 $(a+b)^7 = a^7 + 7a^6b + 21a^5b^2 + 35a^4b^3 + 35a^3b^4 + 21a^2b^5 + 7ab^6 + b^7$
 $(a-b)^7 = a^7 - 7a^6b + 21a^5b^2 - 35a^4b^3 + 35a^3b^4 - 21a^2b^5 + 7ab^6 - b^7$
 $(a+b)^8 = a^8 + 8a^7b + 28a^6b^2 + 56a^5b^3 + 70a^4b^4 + 56a^3b^5 + 28a^2b^6 + 8ab^7 + b^8$
 $(a-b)^8 = a^8 - 8a^7b + 28a^6b^2 - 56a^5b^3 + 70a^4b^4 - 56a^3b^5 + 28a^2b^6 - 8ab^7 + b^8$
 $(a+b)^9 = a^9 + 9a^8b + 36a^7b^2 + 84a^6b^3 + 126a^5b^4 + 126a^4b^5 + 84a^3b^6 + 36a^2b^7 + 9ab^8 + b^9$
 $(a-b)^9 = a^9 - 9a^8b + 36a^7b^2 - 84a^6b^3 + 126a^5b^4 - 126a^4b^5 + 84a^3b^6 - 36a^2b^7 + 9ab^8 - b^9$
 $(a+b)^{10} = a^{10} + 10a^9b + 45a^8b^2 + 120a^7b^3 + 210a^6b^4 + 252a^5b^5 + 210a^4b^6 + 120a^3b^7 + 45a^2b^8 + 10ab^9 + b^{10}$
 $(a-b)^{10} = a^{10} - 10a^9b + 45a^8b^2 - 120a^7b^3 + 210a^6b^4 - 252a^5b^5 + 210a^4b^6 - 120a^3b^7 + 45a^2b^8 - 10ab^9 + b^{10}$

Formulae on Quadratic Equations & Graphs

$ax^2 + bx + c = 0$
Roots: $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$
Sum of roots: $-\frac{b}{a}$
Product of roots: $\frac{c}{a}$
Discriminant: $b^2 - 4ac$
Graph: $y = ax^2 + bx + c$
Vertex: $x = -\frac{b}{2a}$, $y = \frac{4ac - b^2}{4a}$
Axis of symmetry: $x = -\frac{b}{2a}$

Algebraic Formulae on Progressions

Arithmetic Progression (A.P.)
First term: a
Common difference: d
nth term: $a_n = a + (n-1)d$
Sum of first n terms: $S_n = \frac{n}{2}[2a + (n-1)d]$
Sum of first n terms: $S_n = \frac{n}{2}(a_1 + a_n)$
Sum of first n terms: $S_n = \frac{n}{2}d(n+1)$
Sum of first n terms: $S_n = \frac{n}{2}d(n-1)$
Sum of first n terms: $S_n = \frac{n}{2}d(n+1)$
Sum of first n terms: $S_n = \frac{n}{2}d(n-1)$

Geometry Formulae

Area of a Triangle
Base: b
Height: h
Area: $A = \frac{1}{2}bh$
Area of a Parallelogram: $A = bh$
Area of a Rectangle: $A = l \times b$
Area of a Square: $A = s^2$
Area of a Rhombus: $A = \frac{1}{2}d_1d_2$
Area of a Trapezium: $A = \frac{1}{2}(a+b)h$
Area of a Circle: $A = \pi r^2$
Circumference of a Circle: $C = 2\pi r$
Area of a Sector: $A = \frac{\theta}{360} \pi r^2$
Perimeter of a Square: $P = 4s$
Perimeter of a Rectangle: $P = 2(l+b)$
Perimeter of a Triangle: $P = a+b+c$
Perimeter of a Circle: $C = 2\pi r$
Perimeter of a Square: $P = 4s$
Perimeter of a Rectangle: $P = 2(l+b)$
Perimeter of a Triangle: $P = a+b+c$
Perimeter of a Circle: $C = 2\pi r$

Trigonometry Formulae

$\sin^2 \theta + \cos^2 \theta = 1$
 $\sec^2 \theta = 1 + \tan^2 \theta$
 $\csc^2 \theta = 1 + \cot^2 \theta$
 $\sin(90^\circ - \theta) = \cos \theta$
 $\cos(90^\circ - \theta) = \sin \theta$
 $\tan(90^\circ - \theta) = \cot \theta$
 $\cot(90^\circ - \theta) = \tan \theta$
 $\sec(90^\circ - \theta) = \csc \theta$
 $\csc(90^\circ - \theta) = \sec \theta$
 $\sin^2 \theta = \frac{1 - \cos 2\theta}{2}$
 $\cos^2 \theta = \frac{1 + \cos 2\theta}{2}$
 $\tan^2 \theta = \frac{1 - \cos 2\theta}{1 + \cos 2\theta}$
 $\cot^2 \theta = \frac{1 + \cos 2\theta}{1 - \cos 2\theta}$
 $\sec^2 \theta = \frac{2}{1 + \cos 2\theta}$
 $\csc^2 \theta = \frac{2}{1 - \cos 2\theta}$
 $\sin 2\theta = 2 \sin \theta \cos \theta$
 $\cos 2\theta = \cos^2 \theta - \sin^2 \theta$
 $\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$
 $\cot 2\theta = \frac{1 - \tan^2 \theta}{2 \tan \theta}$
 $\sec 2\theta = \frac{1}{\cos 2\theta}$
 $\csc 2\theta = \frac{1}{\sin 2\theta}$
 $\sin^2 \theta = \frac{1 - \cos 2\theta}{2}$
 $\cos^2 \theta = \frac{1 + \cos 2\theta}{2}$
 $\tan^2 \theta = \frac{1 - \cos 2\theta}{1 + \cos 2\theta}$
 $\cot^2 \theta = \frac{1 + \cos 2\theta}{1 - \cos 2\theta}$
 $\sec^2 \theta = \frac{2}{1 + \cos 2\theta}$
 $\csc^2 \theta = \frac{2}{1 - \cos 2\theta}$
 $\sin 2\theta = 2 \sin \theta \cos \theta$
 $\cos 2\theta = \cos^2 \theta - \sin^2 \theta$
 $\tan 2\theta = \frac{2 \tan \theta}{1 - \tan^2 \theta}$
 $\cot 2\theta = \frac{1 - \tan^2 \theta}{2 \tan \theta}$
 $\sec 2\theta = \frac{1}{\cos 2\theta}$
 $\csc 2\theta = \frac{1}{\sin 2\theta}$

Calculus Formulae

Differentiation
 $\frac{d}{dx} x^n = nx^{n-1}$
 $\frac{d}{dx} \sin x = \cos x$
 $\frac{d}{dx} \cos x = -\sin x$
 $\frac{d}{dx} \tan x = \sec^2 x$
 $\frac{d}{dx} \cot x = -\csc^2 x$
 $\frac{d}{dx} \sec x = \sec x \tan x$
 $\frac{d}{dx} \csc x = -\csc x \cot x$
 $\frac{d}{dx} e^x = e^x$
 $\frac{d}{dx} \ln x = \frac{1}{x}$
 $\frac{d}{dx} a^x = a^x \ln a$
 $\frac{d}{dx} x^a = ax^{a-1}$
 $\frac{d}{dx} \frac{u}{v} = \frac{v \frac{du}{dx} - u \frac{dv}{dx}}{v^2}$
 $\frac{d}{dx} uv = u \frac{dv}{dx} + v \frac{du}{dx}$
 $\frac{d}{dx} f(g(x)) = f'(g(x)) \cdot g'(x)$
 $\frac{d}{dx} \frac{1}{u} = -\frac{1}{u^2} \frac{du}{dx}$
 $\frac{d}{dx} \sqrt{u} = \frac{1}{2\sqrt{u}} \frac{du}{dx}$
 $\frac{d}{dx} \frac{1}{\sqrt{u}} = -\frac{1}{2u^{3/2}} \frac{du}{dx}$
 $\frac{d}{dx} \frac{1}{u^2} = -\frac{2}{u^3} \frac{du}{dx}$
 $\frac{d}{dx} \frac{1}{u^3} = -\frac{3}{u^4} \frac{du}{dx}$
 $\frac{d}{dx} \frac{1}{u^4} = -\frac{4}{u^5} \frac{du}{dx}$
 $\frac{d}{dx} \frac{1}{u^5} = -\frac{5}{u^6} \frac{du}{dx}$
 $\frac{d}{dx} \frac{1}{u^6} = -\frac{6}{u^7} \frac{du}{dx}$
 $\frac{d}{dx} \frac{1}{u^7} = -\frac{7}{u^8} \frac{du}{dx}$
 $\frac{d}{dx} \frac{1}{u^8} = -\frac{8}{u^9} \frac{du}{dx}$
 $\frac{d}{dx} \frac{1}{u^9} = -\frac{9}{u^{10}} \frac{du}{dx}$
 $\frac{d}{dx} \frac{1}{u^{10}} = -\frac{10}{u^{11}} \frac{du}{dx}$
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Automated Deduction - CADE-18 Andrei Voronkov, 2003-08-02 The First CADE in the Third Millennium This volume contains the papers presented at the Eighteenth International Conference on Automated Deduction CADE 18 held on July 27-30th 2002 at the University of Copenhagen as part of the Federated Logic Conference FLoC 2002 Despite a large number of deduction related conferences springing into existence at the end of the last millennium the CADE conferences continue to be the major forum for the presentation of new research in all aspects of automated deduction CADE 18 was sponsored by the Association for Automated Reasoning CADE Inc the Department of Computer Science at Chalmers University the Gesellschaft für Informatik Safelogic AB and the University of Koblenz Landau There were 70 submissions including 60 regular papers and 10 system descriptions Each submission was reviewed by at least five program committee members and an electronic program committee meeting was held via the Internet The committee decided to accept 27 regular papers and 9 system descriptions One paper switched its category after refereeing thus the total number of system descriptions in this volume is 10 In addition to the refereed papers this volume contains an extended abstract of the CADE invited talk by Ian Horrocks the joint CADE CAV invited talk by Sharad Malik and the joint CADE TABLEAUX invited talk by Matthias Baaz One more invited lecture was given by Daniel Jackson

Math Workbook for AFOQT 2018 Reza Nazari, Ava Ross, 2018-08-01 The Only Book You'll Ever Need to Ace the Math Sections of the AFOQT Effortless Math AFOQT Workbook provides students with the confidence and math skills they need to succeed on the Air Force Officer Qualifying Test AFOQT Math providing a solid foundation of basic Math topics with abundant exercises for each topic It is designed to address the needs of AFOQT test takers who must have a working knowledge of basic Math This comprehensive workbook with over 2 500 Math questions and 10 complete Arithmetic and Mathematics Knowledge tests is all you need to fully prepare for the AFOQT Math test It will help you learn everything you need to ace the math section of the AFOQT There are more than 2 500 AFOQT Math problems with answers in this book Effortless Math unique study program provides you with an in depth focus on the math portion of the exam helping you master the math skills that students find the most troublesome This workbook contains most common sample questions that are most likely to appear in the mathematics section of the AFOQT Inside the pages of this comprehensive Workbook students can learn basic math operations in a structured manner with a complete study program to help them understand essential math skills It also has many exciting features including Dynamic design and easy to follow activities A fun interactive and concrete learning process Targeted skill building practices Fun exercises that build confidence Math topics are grouped by category so you can focus on the topics you struggle on All solutions for the exercises are included so you will always find the answers 10 Complete AFOQT Math Practice Tests that reflect the format and question types on AFOQT Effortless Math AFOQT Workbook is an incredibly useful tool for those who want to review all topics being covered on the AFOQT test It efficiently and effectively reinforces learning outcomes through engaging questions and

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MATHEMATICS FORMULAS OF UPPER PRIMARY AND SECONDARY EDUCATION Dr. Wasim Akram Mandal

,2025-07-18 Mathematics the king of all sciences remains and will remain as a subject with great charm having an intrinsic value and beauty of its own It plays very important role in sciences engineering and other subjects as well So mathematical knowledge is essential for the growth of science and technology and for any individual to shine well in the field of one's choice In addition a rigorous mathematical training gives one not only the knowledge of mathematics but also a disciplined thought process an ability to analyze complicated problems We need the power and prowess of mathematics to face and solve the ever increasing complex problems that we encounter in our life Furthermore mathematics is a supremely creative force and not just a problem solving tool The learners will realize this fact to their immense satisfaction and advantage as they learn more and more of mathematics Besides a good mathematical training is very much essential to create a good work force for posterity The rudiments of mathematics attained at the school level form the basis of higher studies in the field of mathematics and other sciences Besides learning the basics of mathematics it is also important to learn how to apply them in solving problems The primary aim of this book is to provide all definitions and formulas of upper primary and secondary mathematical education A secondary aim is to introduce the reader to provide difference unit and unit conversation This book contains six chapters The first chapter is Arithmetic Algebra second is Geometry third is Trigonometry forth is Limits Continuity Derivative five is Sets theory Probability Statistics And the last chapter is Some Units Units Conversion Tables This book illustrated with some basic definitions and formulas covering upper primary and secondary mathematics education Finally we wish to thank the staff of the Kindle Amazon for their unfailing cooperation We invite constructive suggestions from any reader of this book [Evaluating Information Retrieval and Access Tasks](#) Tetsuya Sakai,Douglas W. Oard,Noriko

Kando,2020-09-01 This open access book summarizes the first two decades of the NII Testbeds and Community for Information access Research NTCIR NTCIR is a series of evaluation forums run by a global team of researchers and hosted by the National Institute of Informatics NII Japan The book is unique in that it discusses not just what was done at NTCIR but also how it was done and the impact it has achieved For example in some chapters the reader sees the early seeds of what eventually grew to be the search engines that provide access to content on the World Wide Web today's smartphones that can tailor what they show to the needs of their owners and the smart speakers that enrich our lives at home and on the move We also get glimpses into how new search engines can be built for mathematical formulae or for the digital record of a lived human life Key to the success of the NTCIR endeavor was early recognition that information access research is an empirical discipline and that evaluation therefore lay at the core of the enterprise Evaluation is thus at the heart of each chapter in this book They show for example how the recognition that some documents are more important than others has shaped thinking

about evaluation design The thirty three contributors to this volume speak for the many hundreds of researchers from dozens of countries around the world who together shaped NTCIR as organizers and participants This book is suitable for researchers practitioners and students anyone who wants to learn about past and present evaluation efforts in information retrieval information access and natural language processing as well as those who want to participate in an evaluation task or even to design and organize one Math for Scientists Natasha Maurits, Branislava Ćurčić-Blake, 2023-11-10 This book reviews math topics relevant to non mathematics students and scientists but which they may not have seen or studied for a while These math issues can range from reading mathematical symbols to using complex numbers dealing with equations involved in calculating medication equivalents the General Linear Model GLM used in e g neuroimaging analysis finding the minimum of a function independent component analysis or filtering approaches Almost every student or scientist will at some point run into mathematical formulas or ideas in scientific papers that may be hard to understand given that formal math education may be some years ago In this book we will explain the theory behind many of these mathematical ideas and expressions and provide readers with the tools to better understand them We will revisit high school mathematics and extend and relate this to the mathematics you need to understand the math you may encounter in the course of your research This book will help you understand the math and formulas in the scientific papers you read To achieve this goal each chapter mixes theory with practical pen and paper exercises such that you re gain experience with solving math problems yourself Mnemonics will be taught whenever possible To clarify the math and help readers apply it each chapter provides real world and scientific examples In this new edition two new chapters covering statistics and differential equations have been added which have been workshopped in the authors popular lecture series in order to maximize the benefit for readers

Artificial Intelligence, Automated Reasoning, and Symbolic Computation Jacques Calmet, 2002-06-19 This book constitutes the refereed proceedings of the joint International Conferences on Artificial Intelligence and Symbolic Computation AISC 2002 and Calculemus 2002 held in Marseille France in July 2002 The 24 revised full papers presented together with 2 system descriptions were carefully reviewed and selected from 52 submissions Among the topics covered are automated theorem proving logical reasoning mathematical modeling algebraic computations computational mathematics and applications in engineering and industrial practice MATHS FORMULA BOOK PREPJEE, 2014-07-01 THIS HANDBOOK IS A COMPLETE REFERENCE FOR STUDENTS AND ENGINEERS IT HAS EVERYTHING FROM HIGH SCHOOL MATH TO MATH FOR ADVANCE UNDERGRADUATES IN ENGINEERING ECONOMIS PHYSICAL SCIENCES AND MATHEMATICS THE FORMULA BOOK CONTAINS HUNDREDS OF FORMULAS TABLES AND FIGURES FROM NUMBER SET ALGEBRA GEOMETRY TRIGONOMETRY MATRICES AND DETERMINANTS VECTORS ANALYTIC GEOMETRY CALCULUS DIFFERENTIAL EQUATIONS SERIES AND PROBABILITY THE STRUCTURED TABLE OF CONTENTS LINKS AND LAYOUT MAKE FINDING THE RELEVANT INFORMATION QUICK AND PAINLESS SO IT CAN BE USED AS AN

EVERYDAY REFERENCE GUIDE *Making Presentation Math Computable* André Greiner-Petter, 2022-12-31 This Open Access book addresses the issue of translating mathematical expressions from LaTeX to the syntax of Computer Algebra Systems CAS Over the past decades especially in the domain of Sciences Technology Engineering and Mathematics STEM LaTeX has become the de facto standard to typeset mathematical formulae in publications Since scientists are generally required to publish their work LaTeX has become an integral part of today's publishing workflow On the other hand modern research increasingly relies on CAS to simplify manipulate compute and visualize mathematics However existing LaTeX import functions in CAS are limited to simple arithmetic expressions and are therefore insufficient for most use cases Consequently the workflow of experimenting and publishing in the Sciences often includes time consuming and error prone manual conversions between presentational LaTeX and computational CAS formats To address the lack of a reliable and comprehensive translation tool between LaTeX and CAS this thesis makes the following three contributions First it provides an approach to semantically enhance LaTeX expressions with sufficient semantic information for translations into CAS syntaxes Second it demonstrates the first context aware LaTeX to CAS translation framework LaCAST Third the thesis provides a novel approach to evaluate the performance for LaTeX to CAS translations on large scaled datasets with an automatic verification of equations in digital mathematical libraries This is an open access book **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 Formula Memorize How To** Lyla Ehrisman, 2021-05-08 Understanding and memorizing math formulas is the first step to study Math in the future Without formula memory you can not solve any math problem and slump to the

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Axiomatic Theory of Formulas Victor Porton,2019-10-31 This new mathematical theory developed by the book author researches the properties of mathematical formulas aka expressions Naturally this theory is essential for the mathematics Formulas are encountered in all areas of mathematics Probably of special interest are propositional formulas in math logic Using Operator Theory of Formulas may probably simplify proofs of math logic theorems The Theory of Formulas is a new foundation for math logic which is the foundation of mathematics That is the Theory of Formulas is the foundation of the foundation of mathematics This theory researches mathematical formulas as well as any other objects which have constituent

parts of different kinds without the limit that a whole cannot be a part of its part that is loops are not disallowed For example consider relations between objects in the memory of a computer or components of an electronic schema connected with different kinds of links The Operator Theory of Formulas is not limited only to finite neither only to acyclic formulas Infinite and cyclic e g $a \rightarrow b \rightarrow a$ formulas are also modeled by this theory A common example of a system of infinite formulas is the set of irrational numbers Another example of an infinite formula may be the entire mathematics in the form of some formalism e g all groups of Group Theory This book contains a new axiomatic theory the theory of constructs and its specializations including the theory of formulas Informally a construct is anything what has indexed components parts E g the $a \rightarrow b \rightarrow c$ can be considered as a construct which has a as the part with index 1 as the part with index 2 and $b \rightarrow c$ a subformula as the part with index 3 Formulas is a particular case of constructs Informally a formula is a construct which contains symbols E g $a \rightarrow b \rightarrow c$ would be a formula which contains symbols such as $a \rightarrow b \rightarrow c$ To increase flexibility and power of the theory I study operators functions on the sets of constructs rather than the constructs themselves So different kinds of constructs can be researched with a uniform method An important aspect of the theory of formulas accordingly this book is so called specialization that is adding additional subexpressions to expressions For example if would mean an abelian group operation 1 with added additional subformula 1 would mean e g addition of whole numbers which is a specialization of abelian group operation etc Specialization can be used instead of variable substitution Recall that formalist philosophy is a school in philosophy of mathematics which considers mathematical formulas as physical objects For this new theory of formulas which includes infinite logical formulas that philosophy formalism is not applicable as infinite formulas cannot be written and are not physical objects in this sense So this theory also changes the philosophy of mathematics *The American Cyclopaedia* George Ripley, Charles Anderson Dana, 1883 **The Electrical World** , 1894

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