

# Basic Mathematics used in Physics

## Quadratic Equation

Roots of  $ax^2 + bx + c = 0$  are  $x = \frac{-b \pm \sqrt{b^2 - 4ac}}{2a}$

Sum of roots  $x_1 + x_2 = -\frac{b}{a}$

Product of roots  $x_1 x_2 = \frac{c}{a}$

Very easy to do  $-b \pm \sqrt{b^2 - 4ac}$

## Binomial Theorem

$(1+x)^n = 1 + nx + \frac{n(n-1)}{2}x^2 + \frac{n(n-1)(n-2)}{6}x^3 + \dots$

$(1-x)^n = 1 - nx + \frac{n(n-1)}{2}x^2 - \frac{n(n-1)(n-2)}{6}x^3 + \dots$

If  $x \ll 1$  then  $(1+x)^n \approx 1 + nx$  &  $(1-x)^n \approx 1 - nx$

## Logarithm

$\log mn = \log m + \log n$      $\log \frac{m}{n} = \log m - \log n$

$\log m^n = n \log m$      $\log_2 m = 2.303 \log_{10} m$

$\log_{10} 2 = 0.3010$      $\log_{10} 3 = 0.4771$

## Componendo and dividendo theorem

If  $\frac{p}{q} = \frac{a}{b}$  then  $\frac{p+q}{p-q} = \frac{a+b}{a-b}$

## Arithmetic progression-AP

$a, a+d, a+2d, a+3d, \dots, a+(n-1)d$   
here  $d$  = common difference

Sum of  $n$  terms  $S_n = \frac{n}{2} [2a + (n-1)d]$

Note: (i)  $1+2+3+4+5+\dots+n = \frac{n(n+1)}{2}$

(ii)  $1^2+2^2+3^2+\dots+n^2 = \frac{n(n+1)(2n+1)}{6}$

## Geometrical progression-GP

$a, ar, ar^2, ar^3, \dots$  here,  $r$  = common ratio

Sum of  $n$  terms  $S_n = \frac{a(1-r^n)}{1-r}$

Sum of  $\infty$  terms  $S_\infty = \frac{a}{1-r}$  [where  $|r| < 1$ ]

## TRIGONOMETRY

$2\pi$  radian =  $360^\circ \Rightarrow 1$  rad =  $57.3^\circ$

$\sin \theta = \frac{\text{perpendicular}}{\text{hypotenuse}}$

$\cos \theta = \frac{\text{base}}{\text{hypotenuse}}$

$\tan \theta = \frac{\text{perpendicular}}{\text{base}}$

$\cot \theta = \frac{\text{base}}{\text{perpendicular}}$

$\sec \theta = \frac{\text{hypotenuse}}{\text{base}}$

$\text{cosec } \theta = \frac{\text{hypotenuse}}{\text{perpendicular}}$

$\sin \theta = \frac{a}{\sqrt{a^2 + b^2}}$

$\cos \theta = \frac{b}{\sqrt{a^2 + b^2}}$

$\tan \theta = \frac{a}{b}$

$\text{cosec } \theta = \frac{1}{\sin \theta}$

$\sec \theta = \frac{1}{\cos \theta}$

$\cot \theta = \frac{1}{\tan \theta}$

$\sin^2 \theta + \cos^2 \theta = 1$

$1 + \tan^2 \theta = \sec^2 \theta$

$1 + \cot^2 \theta = \text{cosec}^2 \theta$

$\sin(A+B) = \sin A \cos B + \cos A \sin B$

$\cos(A+B) = \cos A \cos B - \sin A \sin B$

$\tan(A+B) = \frac{\tan A + \tan B}{1 - \tan A \tan B}$

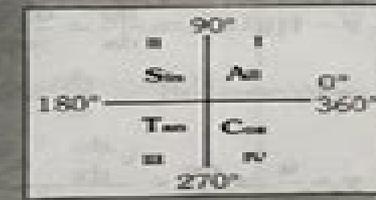
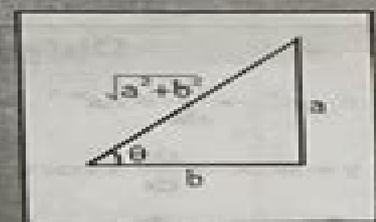
$\sin 2A = 2 \sin A \cos A$

$\cos 2A = \cos^2 A - \sin^2 A = 1 - 2 \sin^2 A = 2 \cos^2 A - 1$

$\tan 2A = \frac{2 \tan A}{1 - \tan^2 A}$

$\cos 2\theta = 2 \cos^2 \theta - 1$   
 $\cos 2\theta = 1 - 2 \sin^2 \theta$

$\cos 2\theta = \cos^2 \theta - \sin^2 \theta$



# Basic Mathematics Vidyalkar

**Sudhir Kakar**



## **Basic Mathematics Vidyalankar:**

Commonwealth Universities Yearbook ,1993 A directory to the universities of the Commonwealth and the handbook of their association *Indo-British Review* ,1995 **Universities Handbook** ,2014 **Data-Driven Decision Making for Sustainable Business Growth** Ismail Qasem,2025-10-10 This book provides a comprehensive guide to data driven decision making for sustainable business growth It offers practical insights and methodologies for leveraging data analytics to enhance sustainability initiatives and drive business success Designed for business professionals data scientists and sustainability practitioners the book bridges the gap between data science and sustainable business practices By integrating data driven strategies with sustainability goals it addresses the critical need for informed decision making in today s data centric business environment The main topics covered in this book include data analytics for sustainability predictive modelling big data applications and the role of artificial intelligence in decision making These topics are crucial as they enable businesses to make informed decisions optimize resource use and improve overall sustainability performance The book also explores case studies of successful data driven sustainability initiatives providing real world examples and actionable insights The relevance of these topics is significant in the modern business landscape where data is a valuable asset This book not only highlights the importance of data driven decision making for sustainability but also provides practical tools and techniques to implement these strategies effectively It aims to empower businesses to harness the power of data for sustainable growth enhancing their competitive advantage and contributing to a more sustainable future The problem this book sets out to solve is the lack of clear guidance on integrating data analytics with sustainability initiatives Many businesses struggle to utilize data effectively to achieve their sustainability goals This book offers a roadmap for leveraging data to drive sustainable business practices showcasing best practices and innovative approaches The target audience for this book includes business leaders data analysts sustainability officers researchers and students in business and data science fields By offering a blend of theoretical knowledge and practical applications this book aims to equip readers with the skills needed to make data driven decisions for sustainable business growth **Spiritual Intelligence for humanistic and holistic education** Dr. kalyani kabir, Dr. Ganga Bhola, Dr. Suman Lata and suraj kumar,2025-12-18 Spiritual intelligence for humanistic and holistic education is an insightful academic work developed by the editorial team of rambha college of education comprising dr kalyani kabir dr ganga bhola dr suman lata and suraj kumar this book explores the concept of spiritual intelligence as a vital dimension of education that nurtures not only intellectual growth but also emotional ethical and human values the book emphasizes the role of spiritual intelligence in promoting humanistic and holistic education aiming to develop balanced individuals with compassion self awareness moral responsibility and inner strength it presents thoughtful perspectives relevant to teachers teacher educators researchers and students of education by integrating educational theory with values based learning this book highlights the importance of education that addresses

the mind body and spirit making it a meaningful contribution to contemporary educational discourse

**Forming an Identity** Nonica Datta,1999 This volume examines how a Jat identity was formed and shaped in rural southeast Punjab The author analyses popular religious traditions and different strands that went into the making of the Jat identity

**Lok Sabha Debates** India. Parliament. Lok Sabha,1964

**Directory of Indian Publishers & Distributors** ,1990

*Women, Education, And Family Structure In India* Carol C Mukhopadhyay,2021-11-28 Five decades of independence have produced dramatic increases in womens educational achievements in India but education for girls beyond a certain level is still perceived as socially risky Based on ethnographic data and historical documents this book explores the origins of that paradox Contributors probe the complex relationships between traditional Indian social institutions the joint family arranged marriage dowry and purdah or sexual segregation and girls schooling They find that a patrifocal family structure and ideology are often at the root of different family approaches to educating sons and daughters and that concern for marriageability still plays a central role in womens educational choices and outcomes

**World Guide to Universities - Internationales Universitäts-Handbuch** ,1976

*All India Educational Directory* Dharma Vira Aggarwala,Gurbachan Singh,1972

**Evaluation of the New Pattern and the Report of the Review Committee, 1977** J. C. Aggarwal,India. Ministry of Education and Social Welfare. Review Committee,1978

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Annual Report National Council of Educational Research and Training (India),1987

**Directory of Institutions for Higher Education** India. Ministry of Education,1981

**Calcutta Gazette** Bengal (India),1928

**Scientific and Technical Education in India, 1781-1900** Samarendra Nath Sen,1991

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