

MATHEMATICAL FORMULAE

Compound interest

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

Mensuration

$$\text{Curved surface area of a cone} = \pi r l$$

$$\text{Surface area of a sphere} = 4\pi r^2$$

$$\text{Volume of a cone} = \frac{1}{3} \pi r^2 h$$

$$\text{Volume of a sphere} = \frac{4}{3} \pi r^3$$

$$\text{Area of triangle } ABC = \frac{1}{2} ab \sin C$$

$$\text{Arc length} = r\theta, \text{ where } \theta \text{ is in radians}$$

$$\text{Sector area} = \frac{1}{2} r^2 \theta, \text{ where } \theta \text{ is in radians}$$

Trigonometry

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

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

Statistics

$$\text{Mean} = \frac{\sum fx}{\sum f}$$

$$\text{Standard deviation} = \sqrt{\frac{\sum fx^2}{\sum f} - \left(\frac{\sum fx}{\sum f} \right)^2}$$

O Level Maths Formula Sheet

Jonathan Tullis



O Level Maths Formula Sheet:

e-O-Level Essential Study Guide Add Maths [Geometry & Trigonometry] Cheng Chung Yu, 2010-05-25 The Essential Study Guide Additional Mathematics series comes in three parts Part 1 Focuses on the building up of the foundation in Algebra Part 2 Understanding the concepts in Geometry and Trigonometry Part 3 Focuses on Calculus Differentiation and Integration This series of books follows the latest curriculum The author hopes to make the learning of Additional Mathematics less daunting and stressful Students will be able to learn at their own pace and individual learning is made possible with the simple and yet detailed explanations of concepts *GCE O Level Examination Past Papers with Answer Guides: Maths India Edition* Cambridge International Examinations, 2004-03-03 These collections of the official past papers of the GCE O Level Examinations from the University of Cambridge International Examinations has been developed for students of GCE O level These books will act as tools for preparation and revision for students These books have an edited Answer Guide for each paper based on the marks scheme written by CIE Principal [A-Level Mathematics: Pure Maths - Calculus \(Limits & Differentiation\)](#) Chandresh Agrawal, Nandini Books, 2026-02-24 Book Description Title A Level Mathematics Pure Maths Calculus Limits Differentiation Subtitle Practice Sets Solved Examples for Global Curricula IB AP A Level Author Chandresh Agrawal Category Non fiction Study Aids Mathematics Calculus Keywords A Level Maths AP Calculus AB IB Math AA HL Limits and Derivatives Pure Mathematics Calculus Practice Sets Exam Prep Chandresh Agrawal Mathematics Language English Format Digital EPUB PDF via Google Play Books The Instant Book Concept Instead of focusing on printing and binding this ebook is positioned as Instant Exam Readiness The Hook Don't wait for a tutor Solve it now Value Proposition Immediate delivery of high yield practice sets Designed for the student who needs to master Limits tonight for an exam tomorrow Ebook Description Unlock the Foundation of Calculus with Chandresh Agrawal Mastering Limits and Differentiation is the make or break moment for every advanced high school and early college student This guide is built for the global student who needs clear high volume practice to achieve top marks in exams like UK A Levels AP Calculus USA and IB Diploma International Unlike standard textbooks that bury you in theory this ebook focuses on the application We provide a bridge between basic algebra and advanced calculus through step by step solved examples that mirror the difficulty of real international exam papers What is COVERED Syllabus Match 80% Foundations of Limits Left hand Right hand limits continuity at a point Algebraic Techniques Rationalization factorization and binomial expansion in limits Differentiation Rules Power rule Product rule and Quotient rule applications Integration Differential Equations Solving first second order equations First Principles Finding derivatives using the limit definition Ab initio Exam Style Practice Graded sets ranging from basic to challenge level What is NOT COVERED Historical Theory Extensive proofs or the history of Newton vs Leibniz Complex Numbers Trigonometric form or Euler's formula in calculus Multi variable Calculus Partial derivatives or 3D coordinate calculus Disclaimer Terms of Use 1 Educational Purpose Only This ebook A Level Mathematics

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