

Mathematics

Candidates are required to give their answers in their own words as far as practicable. The figures in the margin indicate full marks.

Time: 3 hrs.

Full Marks: 100

Pass Marks: 35 (For partial students only)

Attempt all questions.

Group 'A'

5 × 3 × 2 = 30

1. a. Find the truth value of the biconditional statement of p and q where p represents '2 is an even number' and q represents '4 is an even number'.
b. If $f: \mathbb{R} \rightarrow \mathbb{R}$ be defined by $f(x) = 2x - 3$, find f^{-1}
c. Test the even or odd nature and symmetricity of the function $y = 8x^2$
2. a. Express $\tan^{-1}x$ in terms of inverse of sin function.
b. Prove by mathematical induction: $1 + 3 + 5 + \dots + (2n - 1) = n^2$
c. Find the adjoint of the matrix $\begin{pmatrix} 2 & 5 \\ 3 & -7 \end{pmatrix}$
3. a. Using Cramer's rule, solve: $3x + 2y + 9 = 0$, $2x - 3y + 6 = 0$
b. Express $\sqrt{3} + i$ in polar form.
c. If one root of the equation $ax^2 + bx + c = 0$ be twice the other, show that $2b^2 = 9ac$
4. a. Find the equation of the straight line that has y -intercept '2' and is parallel to $4x - 8y + 3 = 0$
b. Find the equation of the circle which passes through origin and makes equal intercepts on both axes.
c. Evaluate: $\lim_{x \rightarrow 0} \frac{1 - \cos nx}{1 - \cos mx}$

Contd...

Grade 1pure Maths Final Exam Paper1

Christian G. Meyer



Grade 1pure Maths Final Exam Paper1:

Revise for Pure Mathematics 1 Michael Kenwood,2001 Revision book written specifically for the Edexcel AS and A Level exams offering worked examination questions and examples with hints on answering examination questions successfully test yourself section key points reinforcing what students have learned and answers to all questions *Pure Maths* Peter Sherran,Janet Crawshaw,1997 A good grade at A Level or Scottish Higher Grade can depend on the student s ability to tackle exam questions confidently and to understand the technique involved in answering questions accurately The aim of this text is to help students learn how to answer questions in an exam environment It provides an insight into the mind of the examiner highlighting what makes a good answer how marks are allocated and what the most common mistakes are Questions are taken from past papers or newly written by the authors with revision summaries answers with full working and examiner s tips They are an ideal complement to A Level study guides **Revise for Core** Tony Clough,2005 Suitable for use alongside the Pure Core textbooks in the Advancing Maths for AQA series or on its own this revision guide is part of a revision series including Revise for Core Maths 2 Mechanics 1 and Statistics 1 *Commonwealth Universities Yearbook* ,1981 A directory to the universities of the Commonwealth and the handbook of their association *Bulletin* Institute of Mathematics and Its Applications,1987 Revise for Core 2 Tony Clough,2005 Containing all the help guidance and support needed by students in the run up to the 2005 exams this text has been updated to meet the latest AQA exam criteria including worked examples similar to what students can expect in the exam itself *The Times Index* ,2005 Indexes the Times and its supplements Backpacker ,2007-09 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured **Resources in Education** ,1989 The Saturday Evening Post ,1911 **Universities Handbook** ,1995 **Popular Science** ,2004-09 Popular Science gives our readers the information and tools to improve their technology and their world The core belief that Popular Science and our readers share The future is going to be better and science and technology are the driving forces that will help make it better *Comfort* ,1898 **FS, the Man and His Times** Mobolaji Adenubi,1999 Letters exchanged with his favorite daughter Saliha the author of the book **Petroleum** ,1961 **Kansas Farmer** ,1915 *Oxford Compact Thesaurus* Lucy Hollingworth,Duncan Marshall,2005 Helping you get the best out of a thesaurus this writing guide contains a two colour text design thousands of new example sentences and Word Link panels to help improve your vocabulary Christian Advocate and Journal and Zion's Herald ,1903 **Prairie Farmer** ,1911 *New Statesman and Nation* ,1949

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In a fast-paced digital era where connections and knowledge intertwine, the enigmatic realm of language reveals its inherent magic. Its capacity to stir emotions, ignite contemplation, and catalyze profound transformations is nothing short of extraordinary. Within the captivating pages of **Grade 1pure Maths Final Exam Paper1** a literary masterpiece penned by a renowned author, readers embark on a transformative journey, unlocking the secrets and untapped potential embedded within each word. In this evaluation, we shall explore the book's core themes, assess its distinct writing style, and delve into its lasting impact on the hearts and minds of those who partake in its reading experience.

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