

Year 12 Further Maths – Matrices Summary

Order

The order of a matrix is simply a description of the number of rows and the number of columns.

Eg

$$\begin{bmatrix} 4 & -7 & 1 \\ 3 & 5 & 0 \\ 7 & 8 & 4 \end{bmatrix}$$

3 X 3

$$\begin{bmatrix} 3 & 4 & 8 & 5 & 2 \\ 0 & 4 & 8 & -4 & -3 \end{bmatrix}$$

2 X 5

$$[3 \quad 4 \quad 7 \quad 4 \quad 8 \quad 1]$$

1 X 6

Elements

Elements of a matrix are the values that occur within it.

Eg If $A = \begin{bmatrix} 3 & 4 & 8 & 5 & 2 \\ 0 & 4 & 8 & -4 & -3 \end{bmatrix}$

Then $A_{(2,3)}$ refers to the element in the 2nd row and the 3rd column: $\rightarrow$ 8

Addition / Subtraction

To add or subtract matrices you simply add or subtract corresponding element (elements in the same position in each matrix). Matrices must have the same order to be added or subtracted.

Eg If $A = \begin{bmatrix} 3 & 4 & 8 & 5 & 2 \\ 0 & 4 & 8 & -4 & -3 \end{bmatrix}$ and $B = \begin{bmatrix} 2 & -3 & 6 & 9 & 1 \\ 1 & 7 & 8 & 3 & -5 \end{bmatrix}$

Then $A + B = \begin{bmatrix} 3+2 & 4-3 & 8+6 & 5+9 & 2+1 \\ 0+1 & 4+7 & 8+8 & -4+3 & -3-5 \end{bmatrix}$

$$= \begin{bmatrix} 5 & 1 & 14 & 14 & 3 \\ 1 & 11 & 16 & -1 & -8 \end{bmatrix}$$

$$A - B = \begin{bmatrix} 3-2 & 4+3 & 8-6 & 5-9 & 2-1 \\ 0-1 & 4-7 & 8-8 & -4-3 & -3+5 \end{bmatrix}$$

$$= \begin{bmatrix} 1 & 7 & 2 & -4 & 1 \\ -1 & -3 & 0 & -7 & 2 \end{bmatrix}$$

Year 12 Further Maths Summary Notes

Lyn Baker



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HSC Ancient History Peter Roberts,2006 This comprehensive study guide covers every topic in the first two sections of the HSC Ancient History course and has been specifically created to maximise exam success This guide has been designed to meet all study needs providing up to date information in an easy to use format This is the first of the two new Ancient History study guides Revision questions have been updated for the new HSC format Excel Ancient History Book 1 contains a chapter on every topic available in the first two sections of the HSC course Section I Personalities in their Times and Section II Ancient Societies an introductory section on how to use the book with an explanation of exam requirements revision questions in each chapter with answers and guidelines comprehensive bibliography and further reading lists key terms defined in each chapter plus a glossary of terms cross referencing between chapters for further information Also available is Excel Ancient History Book 2 which covers comprehensive coverage of Sections III and IV of the HSC course Section III Personalities in the Times and Section IV Historical Periods Maths Handbook & Study Guide Grade 12 Kevin Smith,2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back VTAC eGuide 2016 VTAC,2015-07-15 The VTAC eGuide is the Victorian Tertiary Admissions Centre's annual guide to application for tertiary study scholarships and special consideration in Victoria Australia The eGuide contains course listings and selection criteria for over 1 700 courses at 62 institutions including universities TAFE institutes and independent tertiary colleges Annual Summary Hong Kong. Education Department,1966 Resources in Education ,2001-10 **Key Maths 7/1** David Baker,2000 These resources provide invaluable support within the Key Maths series for all mathematics teachers whether specialists or non specialist experienced or new to the profession **Free Sample - 5 Sample Papers for CBSE Class 10 - Science, Maths, English, Hindi B & Social** Disha Experts,2021-07-01 The book 5 Sample Papers for CBSE Class 10 Science Maths English Hindi B Social provides 5 Sample Papers Mock tests 1 of each subject designed on the latest blur print and pattern The book also provides the detailed solutions of all the 5 Tests with Marking Scheme This is a Free Sample book taken from Disha popular series of 10 Sample Papers Table of Contents Sample Paper English with Solutions Sample Paper Hindi with Solutions Sample Paper Mathematics with Solutions Sample Paper Science with Solutions Sample Paper Social Science with Solutions

Stepping Stones for the 21st Century, 2007-01-01 Over the years a number of must read articles and book chapters have appeared work that has formed the foundational stepping stones of mathematics education research for the 21st century Twelve such seminal articles have been reproduced in this book Each is accompanied by two independent appraisals of the longer term impact of the work within and beyond the mathematics education research community Collectively these writings cover a wide range of topics and provide a broad overview of the outstanding contributions of Australasian mathematics education research prior to 2000

New Abacus Ruth Merttens, David Kirkby, 1999-09-14 Covering the background and philosophy of the New Abacus programme this book also shows how it delivers the Scottish curricula requirements offering examples of good practice in planning and record keeping and assessment

Mathematics for Life and Work A Comparative Perspective on Mathematics to Inform Upper Secondary Reform in England OECD, 2024-11-05 Engagement and performance in mathematics at the upper secondary level have been the concern of successive governments in England This report was commissioned as part of the country's policy reflections for transforming how maths is viewed and experienced in England The report explores outcomes such as the share of students studying maths and performance across countries and how education systems internationally deliver mathematics in upper secondary It also examines factors shaping maths education including the expectations set by curricula student pathways cultural perceptions and the needs of the labour market and higher education

The Times Index, 2004 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement

Solutions Teacher Planning Pack Core Book 7 David Baker, 2005 This is a major new series developed to provide complete coverage of the framework for teaching mathematics and Medium Term Plan in a highly accessible and modern format

Analysis and Partial Differential Equations on Manifolds, Fractals and Graphs Alexander Grigor'yan, Yuhua Sun, 2021-01-18 The book covers the latest research in the areas of mathematics that deal the properties of partial differential equations and stochastic processes on spaces in connection with the geometry of the underlying space Written by experts in the field this book is a valuable tool for the advanced mathematician

Year 10 Intermediate Mathematics Lyn Baker, 2005 The popular Excel Revise in a Month series for senior second ary students has now been adapted for junior high school subjects Each book in the series provides a structured easy to follow revision progra m for topics tests and exams throughout the year Excel Revise in a Month Year 10 Intermediate Mathematics book r evises the NSW Year 10 Stage 5 2 Mathematics course is applica ble to students in the other states studying Year 10 Mathematics tells students exactly what to study each week and how much time to sp end on each topic provides lots of revision questions and three sample examination papers includes fully explained answers to all questions This book will help students revise for succ ess with graded questions from easy to challenging summarised key exam concepts a checklist of key points for e ach topic feedback and results charts to help monitor progress easy to use presentation

Literacy and the Bilingual Learner

Catherine Wallace,2013-10-30 Literacy and the Bilingual Learner explores the literacy development of bilingual learners in London UK schools and colleges through a series of vignettes and case studies of learners and their educational experiences

South African Schooling: The Enigma of Inequality Nic Spaull,Jonathan D. Jansen,2019-11-05 This volume brings together many of South Africa s leading scholars of education and covers the full range of South African schooling from financing and policy reform to in depth discussions of literacy numeracy teacher development and curriculum change The book moves beyond a historical analysis and provides an inside view of the questions South African scholars are now grappling with Are there different and preferential equilibria we have not yet thought of or explored and if so what are they In practical terms how does one get to a more equitable distribution of teachers resources and learning outcomes While decidedly local these questions resonate throughout the developing world South Africa today is the most unequal country in the world The richest 10% of South Africans lay claim to 65% of national income and 90% of national wealth This is the largest 90 10 gap in the world and one that is reflected in the schooling system Two decades after apartheid it is still the case that the life chances of most South African children are determined not by their ability or the result of hard work and determination but instead by the colour of their skin the province of their birth and the wealth of their parents Looking back on almost three decades of democracy in South Africa it is this stubbornness of inequality and its patterns of persistence that demands explanation justification and analysis This is a landmark book on basic education in South Africa an essential volume for those interested in learning outcomes and their inequality in South Africa The various chapters present conceptually and empirically sophisticated analyses of learning outcomes across divisions of race class and place The book brings together the wealth of decades of research output from top quality researchers to explore what has improved what has not and why Prof Lant Pritchett Harvard University There is much wisdom in this collection from many of the best education analysts in South Africa No surprise that they conclude that without a large and sustained expansion in well trained teachers early childhood education and adequate school resources South Africa will continue to sacrifice its people s future to maintaining the privileges of the few Prof Martin Carnoy Stanford University Altogether one can derive from this very valuable volume if not an exact blueprint for the future then certainly at least a crucial and evidence based itinerary for the next few steps Dr Luis Crouch RTI Community and Identity in Contemporary Technosciences Karen Kastenhofer,Susan

Molyneux-Hodgson,2021-03-22 This open access edited book provides new thinking on scientific identity formation It thoroughly interrogates the concepts of community and identity including both historical and contemporaneous analyses of several scientific fields Chapters examine whether and how today s scientific identities and communities are subject to fundamental changes reacting to tangible shifts in research funding as well as more intangible transformations in our society s understanding and expectations of technoscience In so doing this book reinvigorates the concept of scientific community Readers will discover empirical analyses of newly emerging fields such as synthetic biology systems biology and

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The Journal of Education ,1920 **Analysis, Manifolds and Physics, Part II - Revised and Enlarged Edition** Y. Choquet-Bruhat,2000-11-08 Twelve problems have been added to the first edition four of them are supplements to problems in the first edition The others deal with issues that have become important since the first edition of Volume II in recent developments of various areas of physics All the problems have their foundations in volume 1 of the 2 Volume set Analysis Manifolds and Physics It would have been prohibitively expensive to insert the new problems at their respective places They are grouped together at the end of this volume their logical place is indicated by a number of parenthesis following the title Interdisciplinary Insights on Fraud António Maia,José António Moreira,Carlos Pimenta,2014-04-11 This book fills an essential gap in the existing literature by analyzing fraud and the weakening of ethical relations as parts of an overall global process in an interdisciplinary international and multidimensional perspective It provides an in depth analysis of fraud in its multiple facets including financial fraud most notably related to banking fiscal tax fraud tax compliance and the role of government in the process and academic fraud exams misconduct and plagiarism It also presents a set of methods and empirical evidence on the prevention and combating of fraud in distinct settings such as money laundering fraudulent investments schemes and public procurement mismanagement and economies including Brazil Canada France and Portugal

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Table of Contents Year 12 Further Maths Summary Notes

1. Understanding the eBook Year 12 Further Maths Summary Notes
 - The Rise of Digital Reading Year 12 Further Maths Summary Notes
 - Advantages of eBooks Over Traditional Books
2. Identifying Year 12 Further Maths Summary Notes
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Year 12 Further Maths Summary Notes
 - User-Friendly Interface
4. Exploring eBook Recommendations from Year 12 Further Maths Summary Notes
 - Personalized Recommendations
 - Year 12 Further Maths Summary Notes User Reviews and Ratings

- Year 12 Further Maths Summary Notes and Bestseller Lists
- 5. Accessing Year 12 Further Maths Summary Notes Free and Paid eBooks
 - Year 12 Further Maths Summary Notes Public Domain eBooks
 - Year 12 Further Maths Summary Notes eBook Subscription Services
 - Year 12 Further Maths Summary Notes Budget-Friendly Options
- 6. Navigating Year 12 Further Maths Summary Notes eBook Formats
 - ePub, PDF, MOBI, and More
 - Year 12 Further Maths Summary Notes Compatibility with Devices
 - Year 12 Further Maths Summary Notes Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Year 12 Further Maths Summary Notes
 - Highlighting and Note-Taking Year 12 Further Maths Summary Notes
 - Interactive Elements Year 12 Further Maths Summary Notes
- 8. Staying Engaged with Year 12 Further Maths Summary Notes
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Year 12 Further Maths Summary Notes
- 9. Balancing eBooks and Physical Books Year 12 Further Maths Summary Notes
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Year 12 Further Maths Summary Notes
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Year 12 Further Maths Summary Notes
 - Setting Reading Goals Year 12 Further Maths Summary Notes
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Year 12 Further Maths Summary Notes
 - Fact-Checking eBook Content of Year 12 Further Maths Summary Notes
 - Distinguishing Credible Sources

13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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