Arithmetic & Geometric Progression (worksheet #1)

1.
   a. The first three terms, all positive, of a certain GP are $x - 4, x, 5x - 12$. Find:
      i. The value of x
      ii. The value of the fourth term.
   b. In a certain AP the sum of n terms , denoted by S_n is given by $S_n = 2n^2 + 3n$. Obtain and simplify the expression which gives S_{n-1} in terms of n. hence, or otherwise, find:
      i. The nth term as an expression in n.
      ii. The value of the first term.
      iii. The value of the common difference.

2. Find the least number of terms of the GP 24, 36, 54.. Which must be taken for their sum to exceed 2000.

3. The nth term of a progression is $np + q$ and the sum of n terms is denoted by S_n. Given that the 6th term is 4 times the 2nd term and that $S_3 = 12$, find the value for p and q. Express S_n in terms of n.

4. An AP is such that the sum of the first 10 terms is 3 times the sum of the first 5 terms. Find the ratio of the 10th term to 5th term.
Given that the 5th term is 0.14 , calculate the sum of the first 200 terms.

5.
   a. A length of 200 is divided into 25 sections whose lengths are in AP. Given that the sum of the lengths of the 3 smallest sections is 4.2cm, find the length of the largest section.
   b. An infinite geometric series has a finite sum. Given that the first term is 18 and the sum of the first 3 terms is 38, calculate the value of
      i. The common ratio.
      ii. The sum to infinity.

6.
   a. A straight path is made by laying paving slabs end to end. The slabs are laid in order of size and their lengths are in AP. Given that the shortest slab is 0.79m long, that the longest slab is 1.24m long and the difference in lengths of adjoining slabs is 0.025m , calculate
      i. The number of slabs used.
      ii. The length of the path.
   The cost of the slabs are also in AP and vary from $2.16 for the smallest to $3.24 for the largest. Find the total cost of the slabs in the path.
   b. The first term of a GP is a and the common ratio, r, is positive. Given that the sum of the second and third terms is $\frac{10a}{9}$, calculate the value of r.
   Given also that the sum of the first 4 terms is 65, calculate the value of a and hence the sum to infinite of the GP.

7.
   a. An AP is such that the fifth term is 22 and the sum of the first eight terms is 66. Find the first term.
   b. The lengths of the sides of a triangle are in GP and the longest side has a length of 36cm. Given the perimeter is 76cm, find the length of the shortest side.
   c. The first and fourth term of a GP are 500 and 32 respectively. Find:
      i. The values of second and third term.
      ii. The sum to infinity of the progression.

Maths Paper 1 9709 2013

Jeff Shimeta,Marco Ghisalberti,Nicole Rita Posth,Stuart Humphries

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Cambridge International AS and A Level Mathematics: Pure Mathematics 2 & 3 Coursebook Sue Pemberton,Julianne Hughes,2018-03-15 This series has been developed specifically for the Cambridge International AS A Level Mathematics 9709 syllabus to be examined from 2020 Cambridge International AS A Level Mathematics Pure Mathematics 2 3 matches the corresponding units of the syllabus It clearly indicates materials required for P3 study only and contains materials on topics such as logarithmic and exponential functions trigonometry differentiation integration numerical solutions of equations vectors and complex numbers This coursebook contains a variety of features including recap sections for students to check their prior knowledge detailed explanations and worked examples end of chapter and cross topic review exercises and Explore tasks to encourage deeper thinking around mathematical concepts Answers to coursebook questions are at the back of the book *Cambridge International AS and A Level Mathematics: Pure Mathematics 2 and 3 Revised Edition Coursebook* Hugh Neill,Douglas Quadling,Julian Gilbey,2016-07-14 Cambridge AS and A Level Mathematics is a revised series to ensure full syllabus coverage This coursebook has been revised and updated to ensure that it meets the requirements for the Pure Mathematics 2 and 3 P2 and P3 units of Cambridge AS and A Level Mathematics 9709 Additional materials have been added to sections on logarithmic and exponential functions the derivative of tan x and vectors All of the review questions have been updated to reflect changes in the style of questions asked in the course **Cambridge International AS and A Level Mathematics: Pure Mathematics 1 Coursebook** Sue Pemberton,2018-03-15 This series has been developed specifically for the Cambridge International AS A Level Mathematics 9709 syllabus to be examined from 2020 Cambridge International AS A Level Mathematics Pure Mathematics 1 matches the corresponding unit of the syllabus with a clear and logical progression through It contains materials on topics such as quadratics functions coordinate geometry circular measure series differentiation and integration This coursebook contains a variety of features including recap sections for students to check their prior knowledge detailed explanations and worked examples end of chapter and cross topic review exercises and Explore tasks to encourage deeper thinking around mathematical concepts Answers to coursebook questions are at the back of the book Cambridge International AS and A Level Mathematics: Probability & Statistics 2 Coursebook Jayne Kranat,2018-03-15 This series has been developed specifically for the Cambridge International AS A Level Mathematics 9709 syllabus to be examined from 2020 Cambridge International AS A Level Mathematics Probability Statistics 2 matches the corresponding unit of the syllabus with a clear and logical progression through It contains materials on topics such as hypothesis testing Poisson distribution linear combinations and continuous random variables and sampling This coursebook contains a variety of features including recap sections for students to check their prior knowledge detailed explanations and worked examples end of chapter and cross topic review exercises and Explore tasks to encourage deeper thinking around mathematical concepts Answers to coursebook questions are at the back of the book **Cambridge**

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tips and questions from actual past examination papers covering the latest syllabus for Pure Mathematics 3 **Peterson's Grad Programs in Physical Sciences, Math, Ag Sciences, Envir & Natural Res 20154 (Grad 4)** Peterson's,2014-10-21 Graduate Programs in the Physical Sciences Mathematics Agricultural Sciences the Environment Natural Resources 2015 contains more than 3 000 graduate programs in the relevant disciplines including agriculture and food sciences astronomy and astrophysics chemistry physics mathematics environmental sciences and management natural resources marine sciences and more Informative data profiles for more than 3 000 graduate programs at nearly 600 institutions are included complete with facts and figures on accreditation degree requirements application deadlines and contact information financial support faculty and student body profiles Two page in depth descriptions written by featured institutions offer complete details on specific graduate programs schools or departments as well as information on faculty research Comprehensive directories list programs in this volume as well as others in the graduate series **Handbook of Discrete and Combinatorial Mathematics** Kenneth H. Rosen,2017-10-19 Handbook of Discrete and Combinatorial Mathematics provides a comprehensive reference volume for mathematicians computer scientists engineers as well as students and reference librarians The material is presented so that key information can be located and used quickly and easily Each chapter includes a glossary Individual topics are covered in sections and subsections within chapters each of which is organized into clearly identifiable parts definitions facts and examples Examples are provided to illustrate some of the key definitions facts and algorithms Some curious and entertaining facts and puzzles are also included Readers will also find an extensive collection of biographies This second edition is a major revision It includes extensive additions and updates Since the first edition appeared in 1999 many new discoveries have been made and new areas have grown in importance which are covered in this edition **Robots for Learning** Wafa Johal,Tony Belpaeme,Mohamed Chetouani,2022-11-25 *Post-Quantum Cryptography* Markku-Juhani Saarinen,Daniel Smith-Tone,2024-06-10 The two volume set LNCS 14771 and 14772 constitutes the refereed proceedings of the 15th International Workshop PQCrypto 2024 held in Oxford UK during June 12 14 2024 The 28 full papers included in these proceedings were carefully reviewed and selected from 76 submissions They were organized in topical sections as follows Part I Applications and protocols code based cryptography group action based cryptography lattice based cryptography Part II Isogeny Based cryptgraphy multivariate cryptography quantum algorithms transforms and proofs **Graph-Theoretic Concepts in Computer Science** Ignasi Sau,Dimitrios M. Thilikos,2019-09-11 This book constitutes the revised papers of the 45th International Workshop on Graph Theoretic Concepts in Computer Science WG 2019 held in Vall de N ria Spain in June 2019 The 29 full papers presented in this volume were carefully reviewed and selected from 87 submissions They cover a wide range of areas aiming at connecting theory and applications by demonstrating how graph theoretic concepts can be applied in various areas of computer science Another focus is on presenting recent results and on identifying and exploring promising directions of future research Advances in

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Australasia Europe and North and South America The handbook engages with the profound interplay of economic political and social forces that shape educational policies Scholars within this collaborative work delve into what it means to educate in a world undergoing significant changes This entails an exploration of emerging educational approaches considerations for societal implications and the interconnectedness of school music education with broader curricular and global contexts As a cohesive resource The Sage Handbook of School Music Education not only addresses the challenges faced by educators but also envisions the transformative potential of music education in fostering creativity inclusivity and adaptability This handbook serves as a compass for students practitioners and scholars in the field and all those passionate about navigating the complexities of redefining music education for a new era Part 1 Foundations Part 2 Struggling for Social Justice Through Music Education Part 3 Curriculum Development Part 4 Teacher Education **Detection and Estimation of Working Memory States and Cognitive Functions Based on Neurophysiological Measures** Felix Putze,Christian Mühl,Fabien Lotte,Stephen Fairclough,Christian Herff,2019-02-05 Executive cognitive functions like working memory determine the success or failure of a wide variety of different cognitive tasks such as problem solving navigation or planning Estimation of constructs like working memory load or memory capacity from neurophysiological or psychophysiological signals would enable adaptive systems to respond to cognitive states experienced by an operator and trigger responses designed to support task performance e g by simplifying the exercises of a tutor system when the subject is overloaded or by shutting down distractions from the mobile phone The determination of cognitive states like working memory load is also useful for automated testing assessment or for usability evaluation While there exists a large body of research work on neural and physiological correlates of cognitive functions like working memory activity fewer publications deal witt the application of this research with respect to single trial detection and real time estimation of cognitive functions in complex realistic scenarios Single trial classifiers based on brain activity measurements such as electroencephalography functional near infrared spectroscopy physiological signals or eye tracking have the potential to classify affective or cognitive states based upon short segments of data For this purpose signal processing and machine learning techniques need to be developed and transferred to real world user interfaces The goal of this Frontiers Research Topic was to advance the State of the Art in signal based modeling of cognitive processes We were especially interested in research towards more complex and realistic study designs for example collecting data in the wild or investigating the interaction between different cognitive processes or signal modalities Bringing together many contributions in one format allowed us to look at the state of convergence or diversity regarding concepts methods and paradigms Mechanisms and Ecology of Suspended-Particle Capture in Marine Systems Jeff Shimeta,Marco Ghisalberti,Nicole Rita Posth,Stuart Humphries,2025-02-07 The dynamics and capture of suspended particles constrain numerous processes in marine ecosystems such as suspension feeding and trophic interactions aggregation and sedimentation larval and propagule dispersal and settlement and the increasing impacts of micro and

nanoplastics in the environment The interdisciplinary research in these areas draws heavily on fluid and particle dynamics filtration theory surface chemistry and modelling and experimentation with marine organisms This Research Topic focuses on recent advances in interdisciplinary approaches to modelling predicting and measuring particle capture and extensions of these concepts to emerging issues such as the transport and fate of micro and nanoplastics in the marine environment An insightful and inspiring review that will direct future research is also sought

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