

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 n th 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 n th 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 infinity 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

**Wafa Johal, Tony Belpaeme, Mohamed
Chetouani**



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Facets of Combinatorial Optimization Michael Jünger, Gerhard Reinelt, 2013-07-03 Martin Gr tsel is one of the most influential mathematicians of our time He has received numerous honors and holds a number of key positions in the international mathematical community He celebrated his 65th birthday on September 10 2013 Martin Gr tsel s doctoral descendant tree 1983 2012 i e the first 30 years features 39 children 74 grandchildren 24 great grandchildren and 2 great great grandchildren a total of 139 doctoral descendants This book starts with a personal tribute to Martin Gr tsel by the editors Part I a contribution by his very special predecessor Manfred Padberg on Facets and Rank of Integer Polyhedra Part II and the doctoral descendant tree 1983 2012 Part III The core of this book Part IV contains 16 contributions each of which is coauthored by at least one doctoral descendant The sequence of the articles starts with contributions to the theory of mathematical optimization including polyhedral combinatorics extended formulations mixed integer convex optimization super classes of perfect graphs efficient algorithms for subtree telecenters junctions in acyclic graphs and preemptive restricted strip covering as well as efficient approximation of non preemptive restricted strip covering Combinations of new theoretical insights with algorithms and experiments deal with network design problems combinatorial optimization problems with submodular objective functions and more general mixed integer nonlinear optimization problems Applications include VLSI layout design systems biology wireless network design mean risk optimization and gas network optimization Computational studies include a semidefinite branch and cut approach for the max k cut problem mixed integer nonlinear optimal control and mixed integer linear optimization for scheduling and routing of fly in safari planes The two closing articles are devoted to computational advances in general mixed integer linear optimization the first by scientists working in industry the second by scientists working in academia These articles reflect the scientific facets of Martin Gr tsel who has set standards in theory computation and applications

The Sage Handbook of School Music Education José Luis Aróstegui, Catharina Christophersen, Jeananne Nichols, Koji Matsunobu, 2024-09-27 The Sage Handbook of School Music Education stands as an essential guide for navigating the evolving educational landscape in the wake of the 2008 financial crisis and the transformative impact of the COVID 19 pandemic The handbook addresses philosophical foundations social justice challenges the envisioning of a transformative curriculum and critical issues in music teacher education Written by a diverse team of leading scholars this handbook offers a truly global perspective with contributors from Africa Asia

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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 with 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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web 4 10 p.m. slight earthquake shock felt in san francisco november 11 1881 there was a slight earthquake shock at 4 p.m. november 13 1881 a sharp earthquake was felt at 2 41 p.m. reports from the hotel del monte in monterey described the earthquake there as violent july 29 1900 a light earthquake was felt at 5 07 a.m. august 31 1900

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local time with a moment magnitude of 5.7 and a maximum mercalli intensity of vii very strong
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web coordinates 37 75 n 122 55 w at 05 12 pacific standard time on wednesday april 18 1906 the coast of northern california was struck by a major earthquake with an estimated moment magnitude of 7.9 and a maximum mercalli intensity of xi extreme

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web library of congress at 5 12 am on april 18 1906 san francisco residents were awakened by a 40 second tremor that moved furniture shattered glass and toppled chimneys after a 10 second

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