

MATHEMATICS N2 CLASS EXERCISE 1

QUESTION 1

- 1.1 Solve the following equations:
- 1.1.1 $-x^2 + 3x - 2 = 0$ by factorisation (3)
- 1.1.2 $6(2 - m) - 5(4 - m) = 7$ (3)
- 1.2 Given: the formula $p = \sqrt[3]{r^2 - q^2}$
- 1.2.1 Make ' r ' the subject of the formula (3)
- 1.2.2 Calculate the value of ' r ' if $p = 4$ and $q = 6$ (1)
- 1.3 Solve for ' x ' and ' y ' in the following simultaneous equations:
- $5x = 6y + 3$ and $3y - 4x + 1 = 0$ (4)
- [14]

QUESTION 2

- 2.1 A man deducted 3 from 5 times his age and got his grandmother's age.
If his grandmother is 97 years old, how old is the man? (2)
- 2.2 Given: $4x^2 - 15x - 47 = 0$
Solve for ' x ' the equation using the quadratic formula. (3)
- 2.3 Given: $H = \frac{7,5U}{273 + V}$
- 2.3.1 Make ' V ' the subject of the formula. (3)
- 2.3.2 Find the value of ' V ' if $U = 0,5$ and $H = 0,005$ (1)
- 2.4 Given: $8p - 1 = -2q$ and $2p + 3q = 4$
Solve for ' p ' and ' q ' (4)
- [13]

TOTAL: 27 MARKS

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IM Harris



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Cambridge O Level Mathematics Coursebook Audrey Simpson, 2016-03-17 Cambridge O Level Mathematics is a resource to accompany the revised 4024 syllabus This coursebook provides a complete course for developing and practising the skills required for the O Level Mathematics qualification The content has been written to offer a range of tasks that support all aspects of the Cambridge O Level Mathematics syllabus 4024 giving students the confidence to use the mathematical techniques required to solve the range of maths problems required With detailed explanations of concepts worked examples and exercises this coursebook can be used as a classroom text and for self study

Combinatorial Algorithms Kratochvíl Jan, Mirka Miller, Dalibor Fronček, 2015-06-06 This book constitutes the thoroughly refereed post workshop proceedings of the 25th International Workshop on Combinatorial Algorithms IWOCA 2014 held in Duluth MN USA in October 2014 The 32 revised full papers presented were carefully reviewed and selected from a total of 69 submissions The papers focus on topics such as Algorithms and Data Structures Combinatorial Enumeration Combinatorial Optimization Complexity Theory Structural and Computational Computational Biology Databases Security Compression and Information Retrieval Decompositions and Combinatorial Designs Discrete and Computational Geometry as well as Graph Drawing and Graph Theory IWOCA is a yearly forum for researchers in designing algorithms field to advance creativeness of intersection between mathematics and computer science This is the first time this conference is being held in U S

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Evolutionary Computation in Combinatorial Optimization Christian Blum, Gabriela Ochoa, 2014-08-21 This book constitutes the refereed proceedings of the 14th European Conference on Evolutionary Computation in Combinatorial Optimization Evo COP 2014 held in Granada Spain in April 2014 co located with the Evo 2014 events Euro GP Evo BIO Evo MUSART and Evo Applications The 20 revised full papers presented were carefully reviewed and selected from 42 submissions The papers cover the following topics swarm intelligence algorithms fitness landscapes and adaptive algorithms real world and routing problems and cooperative and metaheuristic search

Graph Theory Ralucca Gera, Teresa W. Haynes, Stephen T. Hedetniemi, 2018-10-26 This second volume in a two volume series provides an extensive collection of conjectures and open problems in graph theory It is designed for both graduate students and established researchers in discrete mathematics who are searching for research ideas and references Each chapter provides more than a simple collection of results on a particular topic it captures the reader s interest with techniques that worked and failed in

attempting to solve particular conjectures The history and origins of specific conjectures and the methods of researching them are also included throughout this volume Students and researchers can discover how the conjectures have evolved and the various approaches that have been used in an attempt to solve them An annotated glossary of nearly 300 graph theory parameters 70 conjectures and over 600 references is also included in this volume This glossary provides an understanding of parameters beyond their definitions and enables readers to discover new ideas and new definitions in graph theory The editors were inspired to create this series of volumes by the popular and well attended special sessions entitled My Favorite Graph Theory Conjectures which they organized at past AMS meetings These sessions were held at the winter AMS MAA Joint Meeting in Boston January 2012 the SIAM Conference on Discrete Mathematics in Halifax in June 2012 as well as the winter AMS MAA Joint Meeting in Baltimore in January 2014 at which many of the best known graph theorists spoke In an effort to aid in the creation and dissemination of conjectures and open problems which is crucial to the growth and development of this field the editors invited these speakers as well as other experts in graph theory to contribute to this series

Psychology and Mathematics Education Gila Hanna, Laura Macchi, Karin Binder, Laura Martignon, Katharina Loibl, 2023-09-05 Modern Mathematics is constructed rigorously through proofs based on truths which are either axioms or previously proven theorems Thus it is par excellence a model of rational inquiry Links between Cognitive Psychology and Mathematics Education have been particularly strong during the last decades Indeed the Enlightenment view of the rational human mind that reasons makes decisions and solves problems based on logic and probabilities was shaken during the second half of the twentieth century Cognitive psychologists discovered that humans thoughts and actions often deviate from rules imposed by strict normative theories of inference Yet these deviations should not be called errors as Cognitive Psychologists have demonstrated these deviations may be either valid heuristics that succeed in the environments in which humans have evolved or biases that are caused by a lack of adaptation to abstract information formats Humans as the cognitive psychologist and economist Herbert Simon claimed do not usually optimize but rather satisfice even when solving problem This Research Topic aims at demonstrating that these insights have had a decisive impact on Mathematics Education We want to stress that we are concerned with the view of bounded rationality that is different from the one espoused by the heuristics and biases program In Simon s bounded rationality and its direct descendant ecological rationality rationality is understood in terms of cognitive success in the world correspondence rather than in terms of conformity to content free norms of coherence e g transitivity

String Processing and Information Retrieval Costas Iliopoulos, Simon Puglisi, Emine Yilmaz, 2015-09-04 This book constitutes the refereed proceedings of the 22nd International Symposium on String Processing and Information Retrieval SPIRE 2015 held in London UK in September 2015 The 28 full and 6 short papers included in this volume were carefully reviewed and selected from 90 submissions The papers cover research in all aspects of string processing information retrieval computational biology pattern matching semi structured data and related

applications **Artificial Neural Networks and Machine Learning - ICANN 2019: Theoretical Neural Computation**
Igor V. Tetko, Věra Kůrková, Pavel Karpov, Fabian Theis, 2019-09-09 The proceedings set LNCS 11727 11728 11729 11730 and 11731 constitute the proceedings of the 28th International Conference on Artificial Neural Networks ICANN 2019 held in Munich Germany in September 2019 The total of 277 full papers and 43 short papers presented in these proceedings was carefully reviewed and selected from 494 submissions They were organized in 5 volumes focusing on theoretical neural computation deep learning image processing text and time series and workshop and special sessions Current Index to Journals in Education ,1998 Index to IEEE Publications Institute of Electrical and Electronics Engineers, 1980 Issues for 1973 cover the entire IEEE technical literature **U.S. Government Research & Development Reports** ,1968
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