

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

Mathematics N2 Memorandum

Rachel Sandford



Mathematics N2 Memorandum:

Computing Center Memo University of Michigan Computing Center, 1981 Contemporary Issues in Mathematics Education Estela A. Gavosto, Steven G. Krantz, William McCallum, 1999-06-13 This volume presents a serious discussion of educational issues with representations of opposing ideas Mathematics Magazine, 1991 **The World of Mathematics** James Roy Newman, 2000-01-01 Presents 33 essays on such topics as statistics and the design of experiments group theory the mathematics of infinity the mathematical way of thinking the unreasonableness of mathematics and mathematics as an art A reprint of volume 3 of the four volume edition originally published by Simon and Schuster in 1956 Annotation c Book News Inc Portland OR booknews.com *The World of Mathematics* James R. Newman, 1956 **Character Map In Non-abelian Cohomology, The: Twisted, Differential, And Generalized** Domenico Fiorenza, Hisham Sati, Urs Schreiber, 2023-08-11 This book presents a novel development of fundamental and fascinating aspects of algebraic topology and mathematical physics extra ordinary and further generalized cohomology theories enhanced to twisted and differential geometric form with focus on firstly their rational approximation by generalized Chern character maps and then the resulting charge quantization laws in higher n form gauge field theories appearing in string theory and the classification of topological quantum materials Although crucial for understanding famously elusive effects in strongly interacting physics the relevant higher non abelian cohomology theory higher gerbes has had an esoteric reputation and remains underdeveloped Devoted to this end this book's theme is that various generalized cohomology theories are best viewed through their classifying spaces or moduli stacks not necessarily infinite loop spaces from which perspective the character map is really an incarnation of the fundamental theorem of rational homotopy theory thereby not only uniformly subsuming the classical Chern character and a multitude of scattered variants that have been proposed but now seamlessly applicable in the hitherto elusive generality of twisted differential and non abelian cohomology In laying out this result with plenty of examples this book provides a modernized introduction and review of fundamental classical topics 1 abstract homotopy theory via model categories 2 generalized cohomology in its homotopical incarnation 3 rational homotopy theory seen via homotopy Lie theory whose fundamental theorem we recast as a twisted non abelian de Rham theorem which naturally induces the twisted non abelian character map *A Multiplicative Tate Spectral Sequence for Compact Lie Group Actions* Alice Hedenlund, John Rognes, 2024-03-18 View the abstract **Proper Equivariant Stable Homotopy Theory** Dieter Degrijse, Markus Hausmann, Wolfgang Lück, Irakli Patchkoria, Stefan Schwede, 2023-09-15 View the abstract Discrete Mathematics Research Progress Kenneth Brian Moore, 2008 Discrete mathematics also called finite mathematics or Decision Maths is the study of mathematical structures that are fundamentally discrete in the sense of not supporting or requiring the notion of continuity Most if not all of the objects studied in finite mathematics are countable sets such as integers finite graphs and formal languages Discrete mathematics has become popular in recent decades because of its applications to computer

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Calabi-Yau Varieties: Arithmetic, Geometry and Physics Radu Laza, Matthias Schütt, Noriko Yui, 2015-08-27 This volume presents a lively introduction to the rapidly developing and vast research areas surrounding Calabi Yau varieties and string theory With its coverage of the various perspectives of a wide area of topics such as Hodge theory Gross Siebert program moduli problems toric approach and arithmetic aspects the book gives a comprehensive overview of the current streams of mathematical research in the area The contributions in this book are based on lectures that took place during workshops with the following thematic titles Modular Forms Around String Theory Enumerative Geometry and Calabi Yau Varieties Physics Around Mirror Symmetry Hodge Theory in String Theory The book is ideal for graduate students and researchers learning about Calabi Yau varieties as well as physics students and string theorists who wish to learn the mathematics behind these varieties

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On Non-Topological Solutions of the A_2 and B_2 Chern-Simons System Weiwei Ao, Chang-Shou Lin, Juncheng Wei, 2016-01-25 Click here to view the abstract Introduction Proof of Theorem 1.1 in the case Proof of Theorem 1.1 in the case Appendix Bibliography *Non-Associative Algebras and Related Topics* Helena

Albuquerque, Jose Brox, Consuelo Martínez, Paulo Saraiva, 2023-07-28 This proceedings volume presents a selection of peer reviewed contributions from the Second Non Associative Algebras and Related Topics NAART II conference which was held at the University of Coimbra Portugal from July 18-22 2022 The conference was held in honor of mathematician Alberto Elduque who has made significant contributions to the study of non associative structures such as Lie Jordan and Leibniz algebras The papers in this volume are organized into four parts Lie algebras superalgebras and groups Leibniz algebras associative and Jordan algebras and other non associative structures They cover a variety of topics including classification problems special maps automorphisms derivations etc constructions that relate different structures and representation theory One of the unique features of NAART is that it is open to all topics related to non associative algebras including octonion algebras composite algebras Banach algebras connections with geometry applications in coding theory combinatorial problems and more This diversity allows researchers from a range of fields to find the conference subjects

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