

### QUESTION 1: FACTORISE

- 1.1 Factorise the following expression completely:

$$x\left(\frac{2x^2}{x} - \frac{3xy}{x}\right) + y\left(\frac{2xy}{y} - \frac{3y^2}{y}\right) \quad (3)$$

- 1.2 When  $f(x) = 3ax^3 + 2x^2 - 7x + 3$  is divided by  $2x + 1$  the remainder is  $-\frac{a}{2}$ .

Determine the value or values of  $a$ . (5)

- 1.3 Simplify the following expression:

$$\frac{b}{a+b} + \frac{a}{a-b} + \frac{2ab}{b^2 - a^2} \quad (6)$$

[14]

### QUESTION 2: FACTORISE – AUG 18

- 2.1 Simplify the following algebraic fraction:

$$\frac{x^2 - 4}{3x^2 + 4x - 4} \div \frac{x^2 - 4x + 4}{2x^2 - 11x + 14} \times \frac{3x - 2}{6x - 21} \quad (5)$$

- 2.2 When  $f(x)$  is divided by  $2x - 3$  the remainder is 4.

Determine the value of  $p$  if  $f(x) = 2x^3 - px^2 + 6x - 5$ . (4)

- 2.3 Factorise the following expression completely:  
 $ax + 9by - 3ay - 3bx$

(3)

- 2.4 Simplify the following expression:

$$\frac{x + 9x^{\frac{1}{2}}}{x + 7x^{\frac{1}{2}} - 18} \div \left(1 - \frac{2}{x^{\frac{1}{2}}}\right)^{-1} \quad (5)$$

[17]

### QUESTION 3: FACTORISE

- 3.1 Factorise the following as far as possible in prime factors:

3.1.1  $5x^4 - 5y^4$

3.1.2  $15x^2y^2 - 25xy^3 - 10y^4$

(2 × 3) (6)

# Maths March2014 N3 Paper

**Karin Nielsen-Saines**



## Maths March2014 N3 Paper:

MATHEMATICAL COMBINATORICS, Vol.1 / 2019 Linfan Mao, The Mathematical Combinatorics International Book Series is a fully refereed international book series with ISBN number on each issue sponsored by the MADIS of Chinese Academy of Sciences and published in USA quarterly comprising 110 160 pages approx per volume which publishes original research papers and survey articles in all aspects of Smarandache multi spaces Smarandache geometries mathematical combinatorics non euclidean geometry and topology and their applications to other sciences      **International Journal of Mathematical Combinatorics, Volume 1, 2019** Linfan Mao, International J Mathematical Combinatorics is a fully refereed international journal Topics in detail to be covered are Smarandache multi spaces with applications to other sciences such as those of algebraic multi systems multi metric spaces Smarandache geometries Differential Geometry Geometry on manifolds Topological graphs Algebraic graphs Random graphs Combinatorial maps Graph and map enumeration Combinatorial designs Combinatorial enumeration Low Dimensional Topology Differential Topology Topology of Manifolds Geometrical aspects of Mathematical Physics and Relations with Manifold Topology Applications of Smarandache multi spaces to theoretical physics Applications of Combinatorics to mathematics and theoretical physics Mathematical theory on gravitational fields Mathematical theory on parallel universes Other applications of Smarandache multi space and combinatorics      **Algebra and Computer Science** Delaram Kahrobaei, Bren Cavallo, David Garber, 2016-11-28 This volume contains the proceedings of three special sessions Algebra and Computer Science held during the Joint AMS EMS SPM meeting in Porto Portugal June 10 13 2015 Groups Algorithms and Cryptography held during the Joint Mathematics Meeting in San Antonio TX January 10 13 2015 and Applications of Algebra to Cryptography held during the Joint AMS Israel Mathematical Union meeting in Tel Aviv Israel June 16 19 2014 Papers contained in this volume address a wide range of topics from theoretical aspects of algebra namely group theory universal algebra and related areas to applications in several different areas of computer science From the computational side the book aims to reflect the rapidly emerging area of algorithmic problems in algebra their computational complexity and applications including information security constraint satisfaction problems and decision theory The book gives special attention to recent advances in quantum computing that highlight the need for a variety of new intractability assumptions and have resulted in a new area called group based cryptography      *Granular, Fuzzy, and Soft Computing* Tsau-Young Lin, Churn-Jung Liao, Janusz Kacprzyk, 2023-03-29 The first edition of the Encyclopedia of Complexity and Systems Science ECSS 2009 presented a comprehensive overview of granular computing GrC broadly divided into several categories Granular computing from rough set theory Granular Computing in Database Theory Granular Computing in Social Networks Granular Computing and Fuzzy Set Theory Grid Cloud Computing as well as general issues in granular computing In 2011 the formal theory of GrC was established providing an adequate infrastructure to support revolutionary new approaches to computer data science including the challenges

presented by so called big data For this volume of ECSS Second Edition many entries have been updated to capture these new developments together with new chapters on such topics as data clustering outliers in data mining qualitative fuzzy sets and information flow analysis for security applications Granulations can be seen as a natural and ancient methodology deeply rooted in the human mind Many daily things are routinely granulated into sub things The topography of earth is granulated into hills plateaus etc space and time are granulated into infinitesimal granules and a circle is granulated into polygons of infinitesimal sides Such granules led to the invention of calculus topology and non standard analysis Formalization of general granulation was difficult but as shown in this volume great progress has been made in combining discrete and continuous mathematics under one roof for a broad range of applications in data science Environmental, Social, and Corporate Governance and Sustainability Taewoo Roh, Minwoo Lee, Byung Il Park, 2022-11-28 South African national bibliography, 1999 Classified list with author and title index *The Triangle-Free Process and the Ramsey Number  $R(3,k)$*  Gonzalo Fízig Pontiveros, Simon Griffiths, Robert Morris, 2020-04-03 The areas of Ramsey theory and random graphs have been closely linked ever since Erdős's famous proof in 1947 that the diagonal Ramsey numbers  $R_k$  grow exponentially in  $k$  In the early 1990s the triangle free process was introduced as a model which might potentially provide good lower bounds for the off diagonal Ramsey numbers  $R(3,k)$  In this model edges of  $K_n$  are introduced one by one at random and added to the graph if they do not create a triangle the resulting final random graph is denoted  $G_n$  In 2009 Bohman succeeded in following this process for a positive fraction of its duration and thus obtained a second proof of Kim's celebrated result that  $R(3,k) \leq k^2 \log k$  In this paper the authors improve the results of both Bohman and Kim and follow the triangle free process all the way to its asymptotic end **The Amazing World of Quantum Computing** Rajendra K. Bera, 2020-03-14 This book discusses the application of quantum mechanics to computing It explains the fundamental concepts of quantum mechanics and then goes on to discuss various elements of mathematics required for quantum computing Quantum cryptography waves and Fourier analysis measuring quantum systems comparison to classical mechanics quantum gates and important algorithms in quantum computing are among the topics covered The book offers a valuable resource for graduate and senior undergraduate students in STEM science technology engineering and mathematics fields with an interest in designing quantum algorithms Readers are expected to have a firm grasp of linear algebra and some familiarity with Fourier analysis **Harmonic Maass Forms and Mock Modular Forms** Kathrin Bringmann, Amanda Folsom, Ken Ono, Larry Rolen, 2017 **Power-Up** Matthew Lane, 2017-05-23 A fun and lively look at the mathematical ideas concealed in video games Did you know that every time you pick up the controller to your PlayStation or Xbox you are entering a game world steeped in mathematics Power Up reveals the hidden mathematics in many of today's most popular video games and explains why mathematical learning doesn't just happen in the classroom or from books you're doing it without even realizing it when you play games on your cell phone In this lively and entertaining book Matthew Lane discusses how gamers are engaging with the traveling salesman problem

when they play Assassin's Creed why it is mathematically impossible for Mario to jump through the Mushroom Kingdom in Super Mario Bros and how The Sims teaches us the mathematical costs of maintaining relationships He looks at mathematical pursuit problems in classic games like Missile Command and Ms Pac Man and how each time you play Tetris you're grappling with one of the most famous unsolved problems in all of mathematics and computer science Along the way Lane discusses why Family Feud and Pictionary make for ho hum video games how realism in video games or the lack of it influences learning what video games can teach us about the mathematics of voting the mathematics of designing video games and much more Power Up shows how the world of video games is an unexpectedly rich medium for learning about the beautiful mathematical ideas that touch all aspects of our lives including our virtual ones

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In a digital era where connections and knowledge reign supreme, the enchanting power of language has become more apparent than ever. Its power to stir emotions, provoke thought, and instigate transformation is truly remarkable. This extraordinary book, aptly titled "**Maths March2014 N3 Paper**," compiled by a highly acclaimed author, immerses readers in a captivating exploration of the significance of language and its profound effect on our existence. Throughout this critique, we will delve into the book's central themes, evaluate its unique writing style, and assess its overall influence on its readership.

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du 1<sup>er</sup> juillet 18 novembre 1916 la violence atteint son apogée avec la bataille de la somme au nord ouest de la france 142 jours d offensives contre les lignes de front allemandes et près

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la guerre de mouvement de 1914 a été une phase importante de la première guerre mondiale qui a débuté peu de temps après la déclaration de guerre en août de cette année là elle a été caractérisée par des mouvements rapides et des changements fréquents de position sur le champ de bataille les deux camps l entente et les empires centraux ont cherché à atteindre un avantag

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les allemands battent en retraite devant les russes dans la boucle de la vistule 27 octobre bataille d ypres vaste offensive allemande déclenchée au nord à l est et au sud d ypres en

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