

الصفحة	2	RS 22F	الامتحان الوطني الموحد للبكالوريا - الدورة الاستدراكية 2021 - الموضوع - مادة: الرياضيات- شعبة العلوم التجريبية مسلك علوم الحياة والأرض ومسلك العلوم الفيزيائية (خيار فرنسية)	OC
3				

Exercice 1 : (4 points)

Soit (u_n) la suite numérique définie par : $u_0 = \frac{1}{3}$ et $u_{n+1} = \frac{1+u_n}{3-u_n}$ pour tout n de $\mathbb{N}$

1) Montrer que pour tout n de $\mathbb{N}$, $0 < u_n < 1$

2) a) Montrer que pour tout n de $\mathbb{N}$ $u_{n+1} - u_n = \frac{(u_n - 1)^2}{3 - u_n}$

b) Montrer que la suite (u_n) est convergente.

3) On pose $v_n = \frac{1}{1 - u_n}$ pour tout n de $\mathbb{N}$

a) Montrer que (v_n) est une suite arithmétique et déterminer sa raison et son premier terme.

b) Déterminer v_n en fonction de n et en déduire que $u_n = \frac{n+1}{n+3}$, pour tout n de $\mathbb{N}$

c) Calculer la limite de la suite (u_n)

4) A partir de quelle valeur de n , a-t-on $u_n \geq \frac{1011}{1012}$?

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Exercice 2 : (5 points)

1) Résoudre dans l'ensemble $\mathbb{C}$ des nombres complexes l'équation : $z^2 - 6z + 13 = 0$

On considère l'équation $z^2 - 6z + 13 = 0$ dans $\mathbb{C}$. On pose $\Delta = b^2 - 4ac$. On a $\Delta = 36 - 52 = -16$. On a donc $\sqrt{\Delta} = 4i$ ou $-4i$. On a donc deux solutions complexes conjuguées : $z_1 = 3 + 2i$ et $z_2 = 3 - 2i$.

a) Soit $\frac{z_1}{z_2}$ le quotient complexe. Calculer $\frac{z_1}{z_2}$.

b) Soit $\frac{z_1}{z_2}$ le quotient complexe. Calculer $\frac{z_1}{z_2}$.

c) Soit $\frac{z_1}{z_2}$ le quotient complexe. Calculer $\frac{z_1}{z_2}$. On a $\frac{z_1}{z_2} = \frac{3+2i}{3-2i} = \frac{(3+2i)^2}{(3-2i)(3+2i)} = \frac{9-4-12i}{9+4} = \frac{5-12i}{13}$.

d) Soit $\frac{z_1}{z_2}$ le quotient complexe. Calculer $\frac{z_1}{z_2}$. On a $\frac{z_1}{z_2} = \frac{3+2i}{3-2i} = \frac{(3+2i)^2}{(3-2i)(3+2i)} = \frac{9-4-12i}{9+4} = \frac{5-12i}{13}$.

e) Soit $\frac{z_1}{z_2}$ le quotient complexe. Calculer $\frac{z_1}{z_2}$.

f) Soit $\frac{z_1}{z_2}$ le quotient complexe. Calculer $\frac{z_1}{z_2}$.

g) Soit $\frac{z_1}{z_2}$ le quotient complexe. Calculer $\frac{z_1}{z_2}$.

h) Soit $\frac{z_1}{z_2}$ le quotient complexe. Calculer $\frac{z_1}{z_2}$.

i) Soit $\frac{z_1}{z_2}$ le quotient complexe. Calculer $\frac{z_1}{z_2}$.

j) Soit $\frac{z_1}{z_2}$ le quotient complexe. Calculer $\frac{z_1}{z_2}$.

k) Soit $\frac{z_1}{z_2}$ le quotient complexe. Calculer $\frac{z_1}{z_2}$.

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ECSM2014-Proceedings of the European Conference on Social Media Asher Rospigliosi, Sue Greener, **Inside the Mathematics Class** Uwe Gellert, Christine Knipping, Hauke Straehler-Pohl, 2018-09-26 This volume is a forward looking intersection of Sociological perspectives on mathematics classrooms and socio political perspectives on mathematics education The first perspective has generated a substantial body of knowledge in the mathematics education Interactionist research has deepened our understanding of interaction processes socio mathematical norms and the negotiation of meaning generating a micro sociology or a micro ethnography of the mathematics classroom More recently socio political perspectives on mathematics education interrelate educational practices in mathematics with macro social issues of social equity class and race and with the policies that regulate institutionalized mathematics education This book documents strings together and juxtaposes research that uses ethnographical classroom data to explain on the one hand how socio political issues play out in the mathematics class On the other hand it illuminates how class race etc affect the micro sociology of the mathematics classroom The volume advances the knowledge in the field by providing an empirical grounding of socio political research on mathematics education and it extends the frame in which mathematical classroom cultures are conceived Maple in Mathematics Education and Research Robert M. Corless, Jürgen Gerhard, Ilias S.

Kotsireas, 2021-07-19 This book constitutes refereed proceedings of the 4th Maple Conference MC 2020 held in Waterloo Ontario Canada in November 2020 The 25 revised full papers and 3 short papers were carefully reviewed and selected out of 75 submissions one invited paper is also presented in the volume The papers included in this book cover topics in education algorithms and applications of the mathematical software Maple **Exploring Mathematical Modeling with Young**

Learners Jennifer M. Suh, Megan H. Wickstrom, Lyn D. English, 2021-06-01 This book conceptualizes the nature of mathematical modeling in the early grades from both teaching and learning perspectives Mathematical modeling provides a unique opportunity to engage elementary students in the creative process of mathematizing their world A diverse community of internationally known researchers and practitioners share studies that advance the field with respect to the following themes The Nature of Mathematical Modeling in the Early Grades Content Knowledge and Pedagogy for Mathematical Modeling Student Experiences as Modelers Teacher Education and Professional Development in Modeling Experts in the field provide commentaries that extend and connect ideas presented across chapters This book is an invaluable resource in illustrating what all young children can achieve with mathematical modeling and how we can support teachers and families in this important work **Nonassociative Mathematics and its Applications** Petr Vojtěchovský, Murray R. Bremner, J.

Scott Carter, Anthony B. Evans, John Huerta, Michael K. Kinyon, G. Eric Moorhouse, Jonathan D. H. Smith, 2019-01-14 Nonassociative mathematics is a broad research area that studies mathematical structures violating the associative law $x(yz) \neq (xy)z$ The topics covered by nonassociative mathematics include quasigroups loops Latin squares Lie algebras Jordan algebras

octonions racks quandles and their applications This volume contains the proceedings of the Fourth Mile High Conference on Nonassociative Mathematics held from July 29 August 5 2017 at the University of Denver Denver Colorado Included are research papers covering active areas of investigation survey papers covering Leibniz algebras self distributive structures and rack homology and a sampling of applications ranging from Yang Mills theory to the Yang Baxter equation and Laver tables An important aspect of nonassociative mathematics is the wide range of methods employed from purely algebraic to geometric topological and computational including automated deduction all of which play an important role in this book

Understanding the Math We Teach and How to Teach It, K-8 Small Marian, 2015-08-26 Dr Marian Small has written a landmark book for a wide range of educational settings and audiences from pre service math methods courses to ongoing professional learning for experienced teachers Understanding the Math We Teach and How to Teach It K 8 focuses on the big mathematical ideas in elementary and middle school grade levels and shows how to teach those concepts using a student centered problem solving approach Comprehensive and Readable Dr Small helps all teachers deepen their content knowledge by illustrating core mathematical themes with sample problems clear visuals and plain language Big Focus on Student Thinking The book s tools models and discussion questions are designed to understand student thinking and nudge it forward Particularly popular features include charts listing common student misconceptions and ways to address them a table of suggested manipulatives for each topic and a list of related children s book Implementing Standards That Make Sense By focusing on key mathematics principles Understanding the Math We Teach and How to Teach It K 8 helps to explain the whys of state standards and provides teachers with a deeper understanding of number sense operations algebraic thinking geometry and other critical topics Dr Small a former dean with more than 40 years in the field conceived the book as an essential guide for teachers throughout their career Many teachers who teach at the K 8 level have not had the luxury of specialist training in mathematics yet they are expected to teach an increasingly sophisticated curriculum to an increasingly diverse student population in a climate where there are heightened public expectations They deserve help

Mathematical and Computational Modeling Roderick Melnik, 2015-04-30 Mathematical and Computational Modeling Illustrates the application of mathematical and computational modeling in a variety of disciplines With an emphasis on the interdisciplinary nature of mathematical and computational modeling Mathematical and Computational Modeling With Applications in the Natural and Social Sciences Engineering and the Arts features chapters written by well known international experts in these fields and presents readers with a host of state of the art achievements in the development of mathematical modeling and computational experiment methodology The book is a valuable guide to the methods ideas and tools of applied and computational mathematics as they apply to other disciplines such as the natural and social sciences engineering and technology The book also features Rigorous mathematical procedures and applications as the driving force behind mathematical innovation and discovery Numerous examples from a wide range of disciplines to emphasize the

multidisciplinary application and universality of applied mathematics and mathematical modeling Original results on both fundamental theoretical and applied developments in diverse areas of human knowledge Discussions that promote interdisciplinary interactions between mathematicians scientists and engineers Mathematical and Computational Modeling With Applications in the Natural and Social Sciences Engineering and the Arts is an ideal resource for professionals in various areas of mathematical and statistical sciences modeling and simulation physics computer science engineering biology and chemistry and industrial and computational engineering The book also serves as an excellent textbook for graduate courses in mathematical modeling applied mathematics numerical methods operations research and optimization

Quarterly Review of Distance Education Michael Simonson, Anymir Orellana, 2024-08-01 The Quarterly Review of Distance Education is a rigorously refereed journal publishing articles research briefs reviews and editorials dealing with the theories research and practices of distance education The Quarterly Review publishes articles that utilize various methodologies that permit generalizable results which help guide the practice of the field of distance education in the public and private sectors The Quarterly Review publishes full length manuscripts as well as research briefs editorials reviews of programs and scholarly works and columns The Quarterly Review defines distance education as institutionally based formal education where the learning group is separated and where interactive technologies are used to unite the learning group

Teaching Secondary Mathematics Gregory Hine, Robyn Reaburn, Judy Anderson, Linda Galligan, Colin Carmichael, Michael Cavanagh, Bing Ngu, Bruce White, 2016-08-15 Technology plays a crucial role in contemporary mathematics education Teaching Secondary Mathematics covers major contemporary issues in mathematics education as well as how to teach key mathematics concepts from the Australian Curriculum Mathematics It integrates digital resources via Cambridge HOTmaths www.hotmaths.com.au a popular award winning online tool with engaging multimedia that helps students and teachers learn and teach mathematical concepts This book comes with a free twelve month subscription to Cambridge HOTmaths Each chapter is written by an expert in the field and features learning outcomes definitions of key terms and classroom activities including HOTmaths activities and reflective questions Teaching Secondary Mathematics is a valuable resource for pre service teachers who wish to integrate contemporary technology into teaching key mathematical concepts and engage students in the learning of mathematics

Cool Math for Hot Music Guerino Mazzola, Maria Mannone, Yan Pang, 2016-10-26 This textbook is a first introduction to mathematics for music theorists covering basic topics such as sets and functions universal properties numbers and recursion graphs groups rings matrices and modules continuity calculus and gestures It approaches these abstract themes in a new way Every concept or theorem is motivated and illustrated by examples from music theory such as harmony counterpoint tuning composition e g classical combinatorics dodecaphonic composition and gestural performance The book includes many illustrations and exercises with solutions

Algebraic and Geometric Methods in Discrete Mathematics Heather A. Harrington, Mohamed Omar, Matthew

Wright,2017-03-16 This volume contains the proceedings of the AMS Special Session on Algebraic and Geometric Methods in Applied Discrete Mathematics held on January 11 2015 in San Antonio Texas The papers present connections between techniques from pure mathematics and various applications amenable to the analysis of discrete models encompassing applications of combinatorics topology algebra geometry optimization and representation theory Papers not only present novel results but also survey the current state of knowledge of important topics in applied discrete mathematics Particular highlights include a new computational framework based on geometric combinatorics for structure prediction from RNA sequences a new method for approximating the optimal solution of a sum of squares problem a survey of recent Helly type geometric theorems applications of representation theory to voting theory and game theory a study of fixed points of tensors and exponential random graph models from the perspective of algebraic statistics with applications to networks This volume was written for those trained in areas such as algebra topology geometry and combinatorics who are interested in tackling problems in fields such as biology the social sciences data analysis and optimization It may be useful not only for experts but also for students who wish to gain an applied or interdisciplinary perspective

Analysis, Probability And Mathematical Physics On Fractals

Patricia Alonso Ruiz,Joe Po-chou Chen,Luke G Rogers,Alexander Teplyaev,2020-02-26 In the 50 years since Mandelbrot identified the fractality of coastlines mathematicians and physicists have developed a rich and beautiful theory describing the interplay between analytic geometric and probabilistic aspects of the mathematics of fractals Using classical and abstract analytic tools developed by Cantor Hausdorff and Sierpinski they have sought to address fundamental questions How can we measure the size of a fractal set How do waves and heat travel on irregular structures How are analysis geometry and stochastic processes related in the absence of Euclidean smooth structure What new physical phenomena arise in the fractal like settings that are ubiquitous in nature This book introduces background and recent progress on these problems from both established leaders in the field and early career researchers The book gives a broad introduction to several foundational techniques in fractal mathematics while also introducing some specific new and significant results of interest to experts such as that waves have infinite propagation speed on fractals It contains sufficient introductory material that it can be read by new researchers or researchers from other areas who want to learn about fractal methods and results

Mathematical Creativity Scott A. Chamberlin,Peter Liljedahl,Miloš Savić,2022-11-30 This book is important and makes a unique contribution in the field of mathematics education and creativity The book comprises the most recent research by renowned international experts and scholars as well as a comprehensive up to date literature review The developmental lens applied to the research presented makes it unique in the field Also this book provides a discussion of future directions for research to complement what is already known in the field of mathematical creativity Finally a critical discussion of the importance of the literature in relation to development of learners and accordingly pragmatic applications for educators is provided Many books provide the former 2 foci but omit the final discussion of the research in relation to

developmental needs of learners in the domain of mathematics Currently educators are expected to implement best practices and illustrate how their adopted approaches are supported by research The authors and editors of this book have invested significant effort in merging theory with practice to further this field and develop it for future generations of mathematics learners teachers and researchers *Neuroscience of Mathematical Cognitive Development* Rhonda Douglas

Brown,2018-04-13 This book examines the neuroscience of mathematical cognitive development from infancy into emerging adulthood addressing both biological and environmental influences on brain development and plasticity It begins by presenting major theoretical frameworks for designing and interpreting neuroscience studies of mathematical cognitive development including developmental evolutionary theory developmental systems approaches and the triple code model of numerical processing The book includes chapters that discuss findings from studies using neuroscience research methods to examine numerical and visuospatial cognition calculation and mathematical difficulties and exceptionalities It concludes with a review of mathematical intervention programs and recommendations for future neuroscience research on mathematical cognitive development Featured neuroscience research methods include Functional Magnetic Resonance Imaging fMRI Diffusion Tensor Imaging DTI Event Related Potentials ERP Transcranial Magnetic Stimulation TMS Neuroscience of Mathematical Cognitive Development is an essential resource for researchers clinicians and related professionals and graduate students in child and school psychology neuroscience educational psychology neuropsychology and mathematics education

The Best Writing on Mathematics 2018 Mircea Pitici,2018-12-04 The year's finest mathematical writing from around the world This annual anthology brings together the year's finest mathematics writing from around the world Featuring promising new voices alongside some of the foremost names in the field The Best Writing on Mathematics 2018 makes available to a wide audience many pieces not easily found anywhere else and you don't need to be a mathematician to enjoy them These essays delve into the history philosophy teaching and everyday aspects of math offering surprising insights into its nature meaning and practice and taking readers behind the scenes of today's hottest mathematical debates James Grime shows how to build subtly mischievous dice for playing slightly unfair games and Michael Barany traces how our appreciation of the societal importance of mathematics has developed since World War II In other essays Francis Su extolls the inherent values of learning doing and sharing mathematics and Margaret Wertheim takes us on a mathematical exploration of the mind and the world with glimpses at science philosophy music art and even crocheting And there's much much more In addition to presenting the year's most memorable math writing this must have anthology includes an introduction by the editor and a bibliography of other notable pieces on mathematics This is a must read for anyone interested in where math has taken us and where it is headed

New Directions for Mathematics Education Research on Proving Keith Weber,Miloš Savić,2025-08-03 This book summarizes new directions in mathematics education research on proving at the university level thereby providing contemporary extensions of the sub fields of proof that Annie and John

Selden introduced to the field The chapters each describe an emerging new area of proof research review the relevant findings in this area present open research questions and the tools to address them The book also discusses proof as a literary genre and how students feelings during the proof writing process can influence their behavior The concluding chapter of the book reflects on new directions for research on proving As such this book provides mathematics educators who have extensive experience researching proof with an up to date review of the new methodologies and research questions with regard to proof and young scholars interested in proof can use these chapters as primers on which they can build a research program

Mathematical Challenges For All Roza Leikin,2023-03-17 This book argues that mathematical challenge can be found at any level and at every age and constitutes an essential characteristic of any mathematics classroom aimed at developing the students mathematical knowledge and skills Since each mathematics classroom is heterogeneous with respect to students mathematical potential quality mathematical instruction results from matching the level of mathematical challenge to different students potential Thus effective integration of mathematical challenge in the instructional process is strongly connected to the equity principle of mathematics education In the three sections in this volume readers can find diverse views on mathematical challenges in curriculum and instructional design kinds and variation of mathematically challenging tasks and collections of mathematical problems Evidence based analysis is interwoven with theoretical positions expressed by the authors of the chapters Cognitive social and affective characteristics of challenging mathematical activities are observed and analyzed The volume opens new avenues of research in mathematics education and pose multiple questions about mathematical instruction rich in mathematical challenge for all The authors invite readers to explore and enjoy mathematical challenges at different levels

Language and Culture in Mathematical Cognition Daniel B. Berch,David C. Geary,Kathleen Mann Koepke,2018-07-27 *Language and Culture in Mathematical Cognition* First Edition focuses on the role of linguistic and cultural factors in math cognition and development It covers a wide range of topics including analogical mapping in numerical development arithmetic fact retrieval in the bilingual brain cross cultural comparisons of mathematics achievement the shaping of numerical processing by number word construction the influence of Head Start programs the mathematical skills of children with specific language impairments the role of culture and language in creating associations between number and space and electrophysiological studies of linguistic traces in core knowledge at the neural level Includes cutting edge findings innovative measures recent methodological advances and groundbreaking theoretical developments Synthesizes research from various subdomains of math cognition research Covers the full complement of research in mathematical thinking and learning Informs researchers scholars educators students and policymakers

Parallel Processing and Applied Mathematics Roman Wyrzykowski,Jack Dongarra,Ewa Deelman,Konrad Karczewski,2018-03-22 The two volume set LNCS 10777 and 10778 constitutes revised selected papers from the 12th International Conference on Parallel Processing and Applied Mathematics PPAM 2017 held in Lublin Poland in

September 2017 The 49 regular papers presented in the proceedings were selected from 98 submissions For the workshops and special sessions that were held as integral parts of the PPAM 2017 conference a total of 51 papers was accepted from 75 submissions The papers were organized in topical sections named as follows Part I numerical algorithms and parallel scientific computing particle methods in simulations task based paradigm of parallel computing GPU computing parallel non numerical algorithms performance evaluation of parallel algorithms and applications environments and frameworks for parallel distributed cloud computing applications of parallel computing soft computing with applications and special session on parallel matrix factorizations Part II workshop on models algorithms and methodologies for hybrid parallelism in new HPC systems workshop power and energy aspects of computations PEAC 2017 workshop on scheduling for parallel computing SPC 2017 workshop on language based parallel programming models WLPP 2017 workshop on PGAS programming minisymposium on HPC applications in physical sciences minisymposium on high performance computing interval methods workshop on complex collective systems

Engineering Technology, Engineering Education and Engineering Management Deyao Tan, 2015-06-25 This volume contains papers presented at the International Conference on Engineering Technologies Engineering Education and Engineering Management ETEEEM 2014 Hong Kong 15 16 November 2014 A wide variety of topics is included in the book Engineering Education Education Engineering and Technology Methods and Learning Mechanisms in Engineering Education Engineering Technologies Mechanical and Materials Engineering Financial Engineering Energy and Environmental Engineering Social Engineering Information Engineering Bioengineering and Chemical engineering Engineering Management Decision Support System Project and Quality Management Human Resource Management The book will be of interest to academics and professionals in Engineering Technologies Engineering Education and Engineering Management

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Table of Contents P L E 2014 Maths

1. Understanding the eBook P L E 2014 Maths
 - The Rise of Digital Reading P L E 2014 Maths
 - Advantages of eBooks Over Traditional Books
2. Identifying P L E 2014 Maths
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an P L E 2014 Maths
 - User-Friendly Interface
4. Exploring eBook Recommendations from P L E 2014 Maths

- Personalized Recommendations
- P L E 2014 Maths User Reviews and Ratings
- P L E 2014 Maths and Bestseller Lists
- 5. Accessing P L E 2014 Maths Free and Paid eBooks
 - P L E 2014 Maths Public Domain eBooks
 - P L E 2014 Maths eBook Subscription Services
 - P L E 2014 Maths Budget-Friendly Options
- 6. Navigating P L E 2014 Maths eBook Formats
 - ePub, PDF, MOBI, and More
 - P L E 2014 Maths Compatibility with Devices
 - P L E 2014 Maths Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of P L E 2014 Maths
 - Highlighting and Note-Taking P L E 2014 Maths
 - Interactive Elements P L E 2014 Maths
- 8. Staying Engaged with P L E 2014 Maths
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers P L E 2014 Maths
- 9. Balancing eBooks and Physical Books P L E 2014 Maths
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection P L E 2014 Maths
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine P L E 2014 Maths
 - Setting Reading Goals P L E 2014 Maths
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of P L E 2014 Maths

- Fact-Checking eBook Content of P L E 2014 Maths
- Distinguishing Credible Sources

13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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