

لتكن  $f$  الدالة العددية المعرفة على  $\mathbb{R} - \{-1\}$  بما يلي :

$$\begin{cases} f(x) = \frac{2x^2 + x - 3}{1 - x^2} & ; x < 1 \\ f(x) = x^3 - 3x^2 + 4 & ; x \geq 1 \end{cases}$$

- (1) احسب النهايتين :  $\lim_{x \rightarrow -\infty} f(x)$  و  $\lim_{x \rightarrow +\infty} f(x)$  .  
(1.5) احسب النهايتين :  $\lim_{x \rightarrow (-1)^-} f(x)$  و  $\lim_{x \rightarrow (-1)^+} f(x)$  .  
(0.5+1) احسب النهايتين :  $\lim_{x \rightarrow 1^-} f(x)$  و  $\lim_{x \rightarrow 1^+} f(x)$  . هل تقبل الدالة  $f$  نهاية عند  $a = 1$  ؟

التمرين الثاني: (5 نقط)

نعتبر، في المستوى المنسوب الى م م م  $(O; \vec{i}; \vec{j})$ ، النقط  $A(-1; 1)$  و  $B(1; -1)$  و  $C(\sqrt{3}; \sqrt{3})$ .

- (1) احسب الجداء السلمي  $\overrightarrow{AB} \cdot \overrightarrow{AC}$  و المسافتين  $AB$  و  $AC$  .  
(1+0.5) احسب :  $\cos(\overrightarrow{AB}; \overrightarrow{AC})$  و  $\sin(\overrightarrow{AB}; \overrightarrow{AC})$  .  
(0.5+1) حدد القياس الرئيسي للزاوية  $(\overrightarrow{AB}; \overrightarrow{AC})$  . استنتج ان  $ABC$  مثلث متساوي الأضلاع.

التمرين الثالث: (10.5 نقط)

لتكن  $(C)$  مجموعة النقط  $M(x; y)$  من المستوى، المنسوب الى م م م  $(O; \vec{i}; \vec{j})$ ، التي تحقق:

$$x^2 + y^2 + x - y - 12 = 0$$

- (1) بين ان  $(C)$  هي الدائرة التي مركزها  $\Omega\left(-\frac{1}{2}; \frac{1}{2}\right)$  وشعاعها  $r = \frac{5\sqrt{2}}{2}$  .  
(0.5) (2) ا) تحقق من ان  $A(2; -2) \in (C)$  .  
(1) ب) اكتب معادلة المماس  $(T_A)$  للدائرة  $(C)$  في النقطة  $A$  .  
(3) ليكن  $(D)$  المستقيم ذي المعادلة الديكارية :  $7x + y - 22 = 0$  .  
(0.5) ا) بين ان المستقيم  $(D)$  مماس للدائرة  $(C)$  .  
(1) ب) اكتب معادلة المستقيم  $(H)$  المار من النقطة  $\Omega$  و العمودي على المستقيم  $(D)$  .  
(1.5) ج) استنتج زوج إحداثيتي نقطة تماس المستقيم  $(D)$  و الدائرة  $(C)$  .  
(4) ليكن  $(\Delta)$  المستقيم الذي معادلته الديكارية :  $x + y - 1 = 0$  .  
(0.5) ا) بين ان المستقيم  $(\Delta)$  يقطع الدائرة  $(C)$  في نقطتين  $E$  و  $F$  .  
(1.5) ب) حدد إحداثيات التقاطعتين  $E$  و  $F$  .  
(0.5) (5) ا) بين ان النقطة  $B\left(-\frac{1}{2}; \frac{11}{2}\right)$  تقع خارج الدائرة  $(C)$  .  
(1) ب) حدد معادلتى المماسين للدائرة  $(C)$  المارين من النقطة  $B$  .  
(1.5) (6) حل مبريقيا النظامة التالية :  
$$\begin{cases} x^2 + y^2 + x - y - 12 < 0 \\ x + y - 1 \geq 0 \end{cases}$$

# Pixel C3 Maths Papers

**SIAM Activity Group on Discrete  
Mathematics, Association for  
Computing Machinery, Society for  
Industrial and Applied Mathematics**

## Pixel C3 Maths Papers:

**Proceedings of the Seventeenth Annual ACM-SIAM Symposium on Discrete Algorithms** SIAM Activity Group on Discrete Mathematics, Association for Computing Machinery, Society for Industrial and Applied Mathematics, 2006-01-01  
Symposium held in Miami Florida January 22-24, 2006. This symposium is jointly sponsored by the ACM Special Interest Group on Algorithms and Computation Theory and the SIAM Activity Group on Discrete Mathematics.  
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methods efficiently and transparently Basic and advanced numerical methods are introduced and implemented easily and efficiently in a unified object oriented approach

**Parallel Processing and Applied Mathematics** Roman

Wyrzykowski,Ewa Deelman,Jack Dongarra,Konrad Karczewski,2020-03-19 The two volume set LNCS 12043 and 12044 constitutes revised selected papers from the 13th International Conference on Parallel Processing and Applied Mathematics PPAM 2019 held in Bialystok Poland in September 2019 The 91 regular papers presented in these volumes were selected from 161 submissions For regular tracks of the conference 41 papers were selected from 89 submissions The papers were organized in topical sections named as follows Part I numerical algorithms and parallel scientific computing emerging HPC architectures performance analysis and scheduling in HPC systems environments and frameworks for parallel distributed cloud computing applications of parallel computing parallel non numerical algorithms soft computing with applications special session on GPU computing special session on parallel matrix factorizations Part II workshop on language based parallel programming models WLPP 2019 workshop on models algorithms and methodologies for hybrid parallelism in new HPC systems workshop on power and energy aspects of computations PEAC 2019 special session on tools for energy efficient computing workshop on scheduling for parallel computing SPC 2019 workshop on applied high performance numerical algorithms for PDEs minisymposium on HPC applications in physical sciences minisymposium on high performance computing interval methods workshop on complex collective systems Chapters Parallel Adaptive Cross Approximation for the Multi trace Formulation of Scattering Problems and A High Order Discontinuous Galerkin Solver with Dynamic Adaptive Mesh Refinement to Simulate Cloud Formation Processes are available open access under a Creative Commons Attribution 4.0 International License via link [springer.com](https://www.springer.com)

**Backpacker** ,2001-03 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

*Mathematical Optimization Theory and Operations Research: Recent Trends* Michael Khachay,Yury Kochetov,Anton Ereemeev,Oleg Khamisov,Vladimir Mazalov,Panos Pardalos,2023-09-20 This book constitutes refereed proceedings of the 22nd International Conference on Mathematical Optimization Theory and Operations Research Recent Trends MOTOR 2023 held in Ekaterinburg Russia during July 28 2023 The 28 full papers and one invited paper presented in this volume were carefully reviewed and selected from a total of 61 submissions The papers in the volume are organized according to the following topical headings mathematical programming stochastic optimization discrete and combinatorial optimization operations research optimal control and mathematical economics and optimization in machine learning

**Readings in Computer Vision** Martin A. Fischler,Oscar Firschein,2014-06-28 The field of computer vision combines

techniques from physics mathematics psychology artificial intelligence and computer science to examine how machines might construct meaningful descriptions of their surrounding environment The editors of this volume prominent researchers and leaders of the SRI International AI Center Perception Group have selected sixty papers most published since 1980 with the viewpoint that computer vision is concerned with solving seven basic problems Reconstructing 3D scenes from 2D images Decomposing images into their component parts Recognizing and assigning labels to scene objects Deducing and describing relations among scene objects Determining the nature of computer architectures that can support the visual function Representing abstractions in the world of computer memory Matching stored descriptions to image representation Each chapter of this volume addresses one of these problems through an introductory discussion which identifies major ideas and summarizes approaches and through reprints of key research papers Two appendices on crucial assumptions in image interpretation and on parallel architectures for vision applications a glossary of technical terms and a comprehensive bibliography and index complete the volume

**Numerical Mathematics** ,2007      **Vision Geometry** ,1999      **Image Science Mathematics** Carroll O. Wilde,Eamon Barrett,1977      *Computational Modelling of Objects Represented in Images. Fundamentals, Methods and Applications* João Manuel R.S. Tavares,Jorge R.M. Natal,2018-05-08 This book contains keynote lectures and full papers presented at the International Symposium on Computational Modelling of Objects Represented in Images CompIMAGE held in Coimbra Portugal on 20 21 October 2006 International contributions from nineteen countries provide a comprehensive coverage of the current state of the art in the fields of Image Processing and Analysis Image Segmentation Data Interpolation Registration Acquisition and Compression 3D Reconstruction Objects Tracking Motion and Deformation Analysis Objects Simulation Medical Imaging Computational Bioimaging and Visualization Related techniques also covered in this book include the finite element method modal analyses stochastic methods principal and independent components analyses and distribution models Computational Modelling of Objects Represented in Images will be useful to academics researchers and professionals in Computational Vision image processing and analysis Computer Sciences and Computational Mechanics      Mathematical Reviews ,2006      **Simulation - Past, Present and Future** Richard Zobel,1998      *Interaction of Nanomaterials With the Immune System: Role in Nanosafety and Nanomedicine* Paola Italiani,Diana Boraschi,Lucio R. C. Castellano,Paulo Bonan,Eliton S. Medeiros,2018-04-10 The immune system has the double role of maintaining tissue integrity and homeostasis and of protecting the organism from possible dangers from invading pathogens to environmentally borne dangerous chemicals New chemicals recognisable by the immune system are engineered nanomaterials nanoparticles new agents in our environment that are becoming common due to their presence in many products from constructions and building material e g solar cells pigments and paints tilesand masonry materials to daily products e g food packaging cosmetics and cigarettes Human beings can be accidentally exposed to engineered nanomaterials when these are released from products containing them or during production in workplaces Furthermore

intentional exposure occurs in medicine as engineered nanoparticles are used as tools for improving delivery of drugs and vaccines vaccine adjuvants and contrast agents in therapeutic preventive and diagnostic strategies Nanoparticles that come in contact with the immune system after unintentional exposure need to be eliminated from the organism as they represent a potential threat In this case however due to their peculiar characteristics of size shape surface charge and persistence nanoparticles may elicit undesirable reactions and have detrimental effects on the immune system such as cytotoxicity inflammation anaphylaxis immunosuppression Conversely nanomedicines need to escape immune recognition elimination and must persist in the organism long enough for reaching their target and exerting their beneficial effects Immune cells and molecules at the body surface airway and digestive mucosae skin are the first that come in contact with nanomaterials upon accidental exposure while immune effectors in blood are those that more easily come in contact with nanomedical products Thus evaluating the interaction of the immune system with nanoparticles nanomaterials is a topic of key importance both in nanotoxicology and in nanomedicine Immuno nanosafety studies consider both accidental exposure to nanoparticles which may occur by skin contact ingestion or inhalation at doses and with a frequency that are not known and medical exposure which takes place with a defined administration schedule route dose frequency Many studies focus on the interaction between the immune system and nanoparticles that for medical purposes have been specifically modified to stimulate immunity or to avoid immune recognition as in the case of vaccine carriers adjuvants or drug delivery systems respectively The aims of this Research Topic is to provide an overview of recent strategies 1 for assessing the immunosafety of engineered nanomaterials nanoparticles in particular in terms of activation of inflammatory responses such as complement activation and allergic reactions based on the nanomaterial intrinsic characteristics and on the possible carry over of bioactive contaminants such as LPS Production of new nanoparticles taking into account their effects on immune responses in order to avoid undesirable effects on one hand and to design particles with desirable effects for medical applications on the other hand 2 for designing more effective nanomedicines by either avoiding or exploiting their interaction with the immune systems with particular focus on cancer diagnosis and therapy and vaccination This collection of articles gives a comprehensive view of the state of the art of the interaction of nanoparticles with the immune system from the two perspectives of safety and medical use and aims at providing immunologists with the relevant knowledge for designing improved strategies for immunologically safe nanomaterial applications

*ECMOR VII European Conference on the Mathematics of Oil Recovery*. 7, 2000, Baveno, 2000

**Energy Research Abstracts**, 1989 Semiannual with semiannual and annual indexes References to all scientific and technical literature coming from DOE its laboratories energy centers and contractors Includes all works deriving from DOE other related government sponsored information and foreign nonnuclear information Arranged under 39 categories e g Biomedical sciences basic studies Biomedical sciences applied studies Health and safety and Fusion energy Entry gives bibliographical information and abstract Corporate author subject report number

indexes     Wavelet Applications in Signal and Image Processing ,1994     *InfoWorld* ,1988-04-25 InfoWorld is targeted to Senior IT professionals Content is segmented into Channels and Topic Centers InfoWorld also celebrates people companies and projects     **Proceedings 1990 IEEE International Conference on Robotics and Automation** ,1990     **Automatic Object Recognition** ,1993     *IEEE WESCANEX 97* ,1997     Backpacker ,2001-03 Backpacker brings the outdoors straight to the reader s doorstep inspiring and enabling them to go more places and enjoy nature more often The authority on active adventure Backpacker is the world s first GPS enabled magazine and the only magazine whose editors personally test the hiking trails camping gear and survival tips they publish Backpacker s Editors Choice Awards an industry honor recognizing design feature and product innovation has become the gold standard against which all other outdoor industry awards are measured

The book delves into Pixel C3 Maths Papers. Pixel C3 Maths Papers is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. The book will furnish comprehensive and in-depth insights into Pixel C3 Maths Papers, encompassing both the fundamentals and more intricate discussions.

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- Chapter 5: Conclusion

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