

A Level Maths - Edexcel – Predicted Paper 2 – 2023

Question	Scheme	Marks	AOs
1(a)	$m = \frac{5 - (-2)}{7 - (-3)} \quad \text{or} \quad m = \frac{-2 - 5}{-3 - 7}$	M1	1.1b
	$m = \frac{7}{10}$	A1	1.1b
		(2)	
(b)	$y - 5 = \frac{7}{10}(x - 7)$	M1	1.1b
	$7x - 10y + 1 = 0$	A1	1.1b
		(2)	
(c)	$m_N = -\frac{10}{7}$	B1ft	1.1b
		(1)	
(5 marks)			

Question	Scheme	Marks	AOs
2(a)(i)	$\frac{dy}{dx} = 3ax^2 + 2bx + 12$	M1	1.1b
		A1	1.1b
		(2)	
(ii)	$\frac{d^2y}{dx^2} = 6ax + 2b$	A1ft	1.1b
		(3)	
(b)	$\frac{13}{2} = a\left(\frac{3}{2}\right)^2 + b\left(\frac{3}{2}\right) + 12\left(\frac{3}{2}\right) + 2, \quad 6a\left(\frac{3}{2}\right) + 2b = 0$	M1	3.1a
	$\Rightarrow a = \dots, b = \dots$		
	$a = 2, b = -9$	A1	1.1b
(c)		(2)	
	$\left(\frac{d^2y}{dx^2}\right)_{x=1} = 12(1) - 18, \quad \left(\frac{d^2y}{dx^2}\right)_{x=2} = 12(2) - 18$	M1	2.1
	or $\left(\frac{d^2y}{dx^2}\right)_{\left(x=\frac{3}{2}\right)} = 12$		
	$\left(\frac{d^2y}{dx^2}\right)_{x=1} < 0, \quad \left(\frac{d^2y}{dx^2}\right)_{x=2} > 0$	A1	2.2a
	or $\left(\frac{d^3y}{dx^3}\right)_{\left(x=\frac{3}{2}\right)} \neq 0$		
	Hence point of inflection	(2)	
(7 marks)			

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Image and Graphics Huchuan Lu,Wanli Ouyang,Hui Huang,Jiwen Lu,Risheng Liu,Jing Dong,Min Xu,2023-10-28 The five volume set LNCS 14355 14356 14357 14358 and 14359 constitutes the refereed proceedings of the 12th International Conference on Image and Graphics ICIG 2023 held in Nanjing China during September 22 24 2023 The 166 papers presented in the proceedings set were carefully reviewed and selected from 409 submissions They were organized in topical sections as follows computer vision and pattern recognition computer graphics and visualization compression transmission retrieval artificial intelligence biological and medical image processing color and multispectral processing computational imaging multi view and stereoscopic processing multimedia security surveillance and remote sensing and virtual reality The ICIG 2023 is a biennial conference that focuses on innovative technologies of image video and graphics processing and fostering innovation entrepreneurship and networking It will feature world class plenary speakers exhibits and high quality peer reviewed oral and poster presentations

Computational Science — ICCS 2002 Peter M.A. Sloot,C.J. Kenneth Tan,Jack J. Dongarra,Alfons G. Hoekstra,2003-08-01 Computational Science is the scientific discipline that aims at the development and understanding of new computational methods and techniques to model and simulate complex systems The area of application includes natural systems such as biology environmental and geo sciences physics and chemistry and synthetic systems such as electronics and financial and economic systems The discipline is a bridge between classical computer science logic complexity architecture algorithms mathematics and the use of computers in the aforementioned areas The relevance for society stems from the numerous challenges that exist in the various science and engineering disciplines which can be tackled by advances made in this field For instance new models and methods to study environmental issues like the quality of air water and soil and weather and climate predictions through simulations as well as the simulation supported development of cars airplanes and medical and transport systems etc Paraphrasing R Kenway R D Kenway Contemporary Physics 1994 There is an important message to scientists politicians and industrialists in the future science the best industrial design and manufacture the greatest medical progress and the most accurate environmental monitoring and forecasting will be done by countries that most rapidly exploit the full potential of computational science Nowadays we have access to high end computer architectures and a large range of computing environments mainly as a consequence of the enormous stimulus from the various international programs on advanced computing e.g. *Digital Signal Processing Applications* ,2004 *Multi-disciplinary Trends in Artificial Intelligence* Somnuk Phon-Amnuaisuk,Swhee-Peng Ang,Soo-Young Lee,2017-10-25 This book constitutes the refereed conference proceedings of the 11th International Conference on Multi-disciplinary Trends in Artificial Intelligence MIWAI 2017 held in Gadong Brunei in November 2017 The 40 revised full papers presented were carefully reviewed and selected from 82 submissions They are organized in the following topical sections knowledge representation and reasoning data mining and machine learning deep learning and its applications document analysis intelligent information

systems swarm intelligence **Advances in Multimedia Information Processing - PCM 2009** Paisarn Muneesawang, Feng Wu, Itsuo Kumazawa, Athikom Roeksabutr, Hong-Yuan Mark Liao, Xiaou Tang, 2009-12-15 Welcome to the proceedings of the 10th Pacific Rim Conference on Multimedia PCM 2009 held in Bangkok Thailand December 15 18 2009 Since its inception in 2000 PCM has rapidly grown into a major conference on multimedia in the Asia Pacific Rim region and has built up its reputation around the world Following the success of the preceding conferences PCM 2008 in Taiwan PCM 2007 in Hong Kong PCM 2006 in China PCM 2005 in Korea PCM 2004 in Japan PCM 2003 in Singapore PCM 2002 in Taiwan PCM 2001 in China and PCM 2000 in Australia the tenth PCM brought researchers developers practitioners and educators together to disseminate their new discoveries in the field of multimedia Theoretical breakthroughs and practical systems were presented at this conference thanks to the support of Naresuan University Mahanakorn University of Technology and the IEEE Thailand Section PCM 2009 featured a comprehensive program including keynote talks regular presentations posters and special sessions We received 171 papers from 16 countries including Australia Sweden Germany Italy Iran France Canada China Japan Korea Malaysia Singapore Taiwan Hong Kong the UK and the USA After a rigorous review process we accepted only 67 oral presentations and 45 poster presentations Four special sessions were also organized by world leading researchers

Advances in Visual Computing George Bebis, Richard Boyle, Bahram Parvin, Darko Koracin, Ioannis Pavlidis, Rogerio Feris, Tim McGraw, Mark Elendt, Regis Kopper, Eric Ragan, Zhao Ye, Gunther Weber, 2015-12-17 The two volume set LNCS 9474 and LNCS 9475 constitutes the refereed proceedings of the 11th International Symposium on Visual Computing ISVC 2015 held in Las Vegas NV USA in December 2015 The 115 revised full papers and 35 poster papers presented in this book were carefully reviewed and selected from 260 submissions The papers are organized in topical sections Part I LNCS 9474 comprises computational bioimaging computer graphics motion and tracking segmentation recognition visualization mapping modeling and surface reconstruction advancing autonomy for aerial robotics medical imaging virtual reality observing humans spectral imaging and processing intelligent transportation systems visual perception and robotic systems Part II LNCS 9475 applications 3D computer vision computer graphics segmentation biometrics pattern recognition recognition and virtual reality Visual Communications and Image Processing '96 Rashid Ansari, Mark J. T. Smith, 1996 **Scientific and**

Technical Aerospace Reports, 1994 Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database *Proceedings, International Conference on Image Processing*, 1997 **IGARSS 2000**, 2000 **ICCCE 2020**

Amit Kumar, Stefan Mozar, 2020-10-11 This book is a collection of research papers and articles presented at the 3rd International Conference on Communications and Cyber Physical Engineering ICCCE 2020 held on 1 2 February 2020 at CMR Engineering College Hyderabad Telangana India Discussing the latest developments in voice and data communication engineering cyber physical systems network science communication software image and multimedia processing research and

applications as well as communication technologies and other related technologies it includes contributions from both academia and industry This book is a valuable resource for scientists research scholars and PG students working to formulate their research ideas and find the future directions in these areas Further it may serve as a reference work to understand the latest engineering and technologies used by practicing engineers in the field of communication engineering **The Earth Observer** ,2007 *Government Reports Announcements & Index* ,1995 Medical Imaging ,1993 **Laser Radar Technology and Applications** ,1998 **Mathematics of Data/image Coding, Compression, and Encryption** ,2005
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