

AS Pure Mathematics 8MA0: Specimen Paper 1 Mark Scheme

Question	Scheme	Marks	AOs
1 (a)	$y=2x^3-2x^2-2x+8 \Rightarrow \frac{dy}{dx}=6x^2-4x-2$	M1 A1	1.1b 1.1b
		(2)	
(b)	Attempts $6x^2-4x-2>0 \Rightarrow (6x+2)(x-1)>0$	M1	1.1b
	$x=-\frac{1}{3}, 1$	A1	1.1b
	Chooses outside region	M1	1.1b
	$\{x:x<-\frac{1}{3}\} \cup \{x:x>1\}$	A1	2.5
		(4)	
(6 marks)			
Notes:			
(a)			
M1: Attempts to differentiate. Allow for two correct terms un-simplified			
A1: $\frac{dy}{dx}=6x^2-4x-2$			
(b)			
M1: Attempts to find the critical values of their $\frac{dy}{dx}>0$ or their $\frac{dy}{dx}=0$			
A1: Correct critical values $x=-\frac{1}{3}, 1$			
M1: Chooses the outside region			
A1: $\{x:x<-\frac{1}{3}\} \cup \{x:x>1\}$ or $\{x:x \in \mathbb{R} \mid x<-\frac{1}{3} \text{ or } x>1\}$			
Accept also $\{x:x \leq -\frac{1}{3}\} \cup \{x:x \geq 1\}$			

Math Studies Paper 1 Mark Scheme 2014

**David Eisenbud, Srikanth B.
Iyengar, Anurag K. Singh, J. Toby
Stafford, Michel Van den Bergh**



Math Studies Paper 1 Mark Scheme 2014:

Commutative Algebra and Noncommutative Algebraic Geometry David Eisenbud, Srikanth B. Iyengar, Anurag K. Singh, J. Toby Stafford, Michel Van den Bergh, 2015-11-19 This book surveys fundamental current topics in these two areas of research emphasising the lively interaction between them Volume 2 focuses on the most recent research Reform and Responsibility in the Remaking of the Swedish National Pension System Anette Nyqvist, 2016-04-08 Reform and Responsibility in the Remaking of the Swedish National Pension System is a detailed study through Sweden's national pension system With Sweden's recently reformed national pension system as the illustrative example Nyqvist shows how new forms of governance effectively shift responsibility from state level to an individual level She sheds light on how politicians technocrats and bureaucrats work to educate and foster the general public into responsible hardworking and financially literate citizens This ethnographic example of how contemporary power works by way of new forms of governance Reform and Responsibility in the Remaking of the Swedish National Pension System is an exploration into the art of governing of a large scale governmental policy process **Large Deviations and Asymptotic Methods in Finance** Peter K. Friz, Jim Gatheral, Archil Gulisashvili, Antoine Jacquier, Josef Teichmann, 2015-06-16 Topics covered in this volume large deviations differential geometry asymptotic expansions central limit theorems give a full picture of the current advances in the application of asymptotic methods in mathematical finance and thereby provide rigorous solutions to important mathematical and financial issues such as implied volatility asymptotics local volatility extrapolation systemic risk and volatility estimation This volume gathers together ground breaking results in this field by some of its leading experts Over the past decade asymptotic methods have played an increasingly important role in the study of the behaviour of financial models These methods provide a useful alternative to numerical methods in settings where the latter may lose accuracy in extremes such as small and large strikes and small maturities and lead to a clearer understanding of the behaviour of models and of the influence of parameters on this behaviour Graduate students researchers and practitioners will find this book very useful and the diversity of topics will appeal to people from mathematical finance probability theory and differential geometry

Artificial Life and Computational Intelligence Stephan Chalup, Alan D. Blair, Marcus Randall, 2015-01-10 This book constitutes the refereed proceedings of the First Australasian Conference on Artificial Life and Computational Intelligence ACALCI 2015 held in Newcastle NSW Australia in February 2015 The 34 revised full papers presented were carefully reviewed and selected from 63 submissions The papers are organized in the following topical sections philosophy and theory game environments and methods learning memory and optimization and applications and implementations **Human Aspects of IT for the Aged Population. Healthy and Active Aging** Qin Gao, Jia Zhou, 2020-07-10 This three volume set of LNCS 12207 12208 and 12209 constitutes the refereed proceedings of the 6th International Conference on Human Aspects of IT for the Aged Population ITAP 2020 held as part of the 22nd International Conference HCI International 2020 which took

place in Copenhagen Denmark in July 2020 The conference was held virtually due to the COVID 19 pandemic The total of 1439 papers and 238 posters have been accepted for publication in the HCII 2020 proceedings from a total of 6326 submissions ITAP 2020 includes a total of 104 regular papers which are organized in topical sections named Involving Older Adults in HCI Methodology User Experience and Aging Aging and Mobile and Wearable Devices Health and Rehabilitation Technologies Well being Persuasion Health Education and Cognitive Support Aging in Place Cultural and Entertainment Experiences for Older Adults Aging and Social Media Technology Acceptance and Societal Impact *Signal and Information Processing, Networking and Computers* Yue Wang, Meixia Fu, Lexi Xu, Jiaqi Zou, 2020-04-04 This book collects selected papers from the 6th Conference on Signal and Information Processing Networking and Computers held in Guiyang China on August 13 16 2019 Focusing on the latest advances in information theory communication systems computer science aerospace technologies big data and other related technologies it offers a valuable resource for researchers and industrial practitioners alike HCI International 2017 - Posters' Extended Abstracts Constantine Stephanidis, 2017-05-11 The two volume set CCIS 713 and CCIS 714 contains the extended abstracts of the posters presented during the 19th International Conference on Human Computer Interaction HCI International 2017 held in Vancouver BC Canada in July 2017 HCII 2017 received a total of 4340 submissions of which 1228 papers were accepted for publication after a careful reviewing process The 177 papers presented in these two volumes were organized in topical sections as follows Part I Design and evaluation methods tools and practices novel interaction techniques and devices psychophysiological measuring and monitoring perception cognition and emotion in HCI data analysis and data mining in social media and communication ergonomics and models in work and training support Part II Interaction in virtual and augmented reality learning games and gamification health well being and comfort smart environments mobile interaction visual design and visualization social issues and security in HCI

Life-Cycle Civil Engineering: Innovation, Theory and Practice Airong Chen, Xin Ruan, Dan M. Frangopol, 2021-02-26 Life Cycle Civil Engineering Innovation Theory and Practice contains the lectures and papers presented at IALCCE2020 the Seventh International Symposium on Life Cycle Civil Engineering held in Shanghai China October 27 30 2020 It consists of a book of extended abstracts and a multimedia device containing the full papers of 230 contributions including the Fazlur R Khan lecture eight keynote lectures and 221 technical papers from all over the world All major aspects of life cycle engineering are addressed with special emphasis on life cycle design assessment maintenance and management of structures and infrastructure systems under various deterioration mechanisms due to various environmental hazards It is expected that the proceedings of IALCCE2020 will serve as a valuable reference to anyone interested in life cycle of civil infrastructure systems including students researchers engineers and practitioners from all areas of engineering and industry **Surveys in Combinatorics 2021** Konrad K. Dabrowski, Maximilien Gadouleau, Nicholas Georgiou, Matthew Johnson, George B. Mertzios, Daniël Paulusma, 2021-06-24 This volume contains nine survey articles based on plenary lectures given at the 28th

British Combinatorial Conference hosted online by Durham University in July 2021 This biennial conference is a well established international event attracting speakers from around the world Written by some of the foremost researchers in the field these surveys provide up to date overviews of several areas of contemporary interest in combinatorics Topics discussed include maximal subgroups of finite simple groups Hasse Weil type theorems and relevant classes of polynomial functions the partition complex the graph isomorphism problem and Borel combinatorics Representing a snapshot of current developments in combinatorics this book will be of interest to researchers and graduate students in mathematics and theoretical computer science

The Times Index ,2012 Indexes the Times Sunday times and magazine Times literary supplement Times educational supplement Times educational supplement Scotland and the Times higher education supplement INFORMS Conference Program Institute for Operations Research and the Management Sciences. National Meeting,1995

Mathematical Reviews ,2002 *Saturday Review* ,1969 **Physics Briefs** ,1991 Alabama College and Career Ready Standards in Grade 1 Mathematics American Book Company,2014 *Arizona College and Career Ready Standards in Grade 1 Mathematics* American Book Company,2014 Ohio New Learning Standards in Grade 1 Mathematics American Book Company,2014 **Mastering the 6th Grade OCCT in Reading** American Book Company,2014 **Oklahoma Acadmeic Standards in Grade 1 Mathematics** American Book Company,2014

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web bolt torque is calculated for a flanged assembly using the following equation applied torque $t \cdot k \cdot f \cdot d$ 12 in fps unit where t torque in ft lb k dimensionless nut factor or tightening factor f axial force in pounds d nominal bolt diameter in inches in the metric system torque applied $t \cdot k \cdot d \cdot f$ 1000 where t torque in n m f bolt load in n

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web easy handling bolt numbering shall be done clockwise around the flange with the following sequence the table below shows the torque sequence for flanges with 4 to 32 bolts number of bolt studbolt tightening sequence to follow4 bolt flange1 3 2 4 8 bolt flange1 5 3 7 2 6 4 8 12 bolt flange1 7 4 10 2 8 5 11 3 9 6 12 16 bolt

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web for flanges with 12 or more bolts 1 st round 20 percent of final torque 2 nd round 40 percent of final torque 3 rd round 80 percent of final torque 4 th round 100 percent of final torque final round clockwise or counter clockwise around the flange please take note the above bolt tightening sequences are the most

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web jan 27 2021 the gasket type and arrangement of the flange connection are both critical to choosing which tightening sequence an assembler can use this article which is intended for supervisors engineers or anyone else who oversees bolted flange assembly or maintenance will discuss different torque sequences

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web number of bolt stud bolt tightening sequence to follow 4 bolt flange 1 3 2 4 8 bolt flange 1 5 3 7 2 6 4 8 12 bolt flange 1 7 4 10 2 8 5 11 3 9 6 12 16 bolt flange 1 9 5 13 3 11 7 15 2 10 6 14 4 12 8 16 20 bolt flange 1 11 6 16 3 13 8 18 5 15 10 20 2 12 7 17 4 14 9 19 24 bolt flange

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web ensure the bolt lengths allow for a minimum of 2 3 threads protruding beyond the top of the nut when tightened bolts must be tightened according to the below sequence options assemble bolts hand tight maximum 30 of final tightening torque

as per below cross pattern sequences

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web step 1 liberally lubricate all load bearing surfaces including threads and flat washers then install and finger tighten all fasteners number the bolts flange according to the bolt torque sequence step 2 set the torque wrench to 1 3 of the target torque value and tighten in an order bolts 1 2 3 4 until all have been tightened

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web tightening sequence the first pass lightly tighten the first bolt then move directly across or 180 degrees for the second bolt then move 1 4 turn around the circle or 90 degrees for the third bolt and directly across for the fourth continue this sequence until all bolts are tightened when tightening a four bolt flange use a criss cross

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web dec 17 2020 bolt tightening sequence why it matters to complete a flange joint securely it is essential to control the stress variation in the flange joint components in the case of the gasket this needs to be compressed evenly across the flange face if you were to tighten adjacent bolts when those opposite remain loose the result will be

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web jan 10 2016 twelve bolt tightening sequence sequential order 1 2 3 4 5 6 7 8 9 10 11 12 rotation order 1 5 9 3 7 11 2 6 10 4 8 12 sixteen bolt tightening sequence sequential order 1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 rotation order 1 9 5 13 3 11 7 15 2 10 6 14 4 12 8 16 twenty bolt tightening sequence

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