



GCSE MATHEMATICS - PAPER 3H

Summer 2022 **Predicted** Paper

Mark Scheme

Question	Working	Mark	Comment
1	$\begin{pmatrix} 5 \\ -13 \end{pmatrix}$	B1	
2	$399.5 \text{ kg} \leq \text{mass} < 400.5 \text{ kg}$	B1	
3	$3y + 8$	B1	
4a	14	A1	
4b	32	A1	
4c	Substitutes in $n = 1$ and arrives at 2 or Substitutes in $n = 2$ and arrives at 8	M1	
	Substitutes in $n = 1$ and $n = 2$ and arrives at 2 and 8 respectively	A1	
5	$(60 \Rightarrow) 2 \times 2 \times 3 \times 5$ or $(84 \Rightarrow) 2 \times 2 \times 3 \times 7$ or 1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60 or 1, 2, 3, 4, 6, 7, 12, 14, 21, 28, 42, 84 or $2 \times 2 \times 3$	B1	Fully correct prime factor tree is B1
	12	A1	
6	$(\tan x =) \frac{41}{18}$ or $\tan^{-1} \left(\frac{41}{18} \right)$	M1	
	66.2(...) or 66.3 or 66 if M1 awarded	A1	
7a	4 and -2	A1	
7b	$(0 - 8)$ or -8	A1	

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N Noddings



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Regulations and Syllabuses for General Education Subjects, May/June 1997-May/June 1998 ,1997 Electrical & Electronics Abstracts ,1997 Resources in Education ,1995 Developing a Digital National Library for Undergraduate Science, Mathematics, Engineering and Technology Education National Research Council,Division of Behavioral and Social Sciences and Education,Board on Science Education,Steering Committee for Developing a Digital National Library for Undergraduate Science, Mathematics, Engineering, and Technology Education,1998-01-29 In 1996 the National Science Foundation NSF released a report about ways to improve undergraduate science mathematics engineering and technology SME T education One recommendation called for establishing a digital library similar to those that are being constructed for many research communities that would make available electronically a wide variety of materials for improving teaching and learning of SME T The NSF asked the National Research Council to examine the feasibility of and issues associated with establishing such a digital national library In response an NRC steering committee commissioned a series of papers and convened a workshop to consider these issues This resulting book delineates the issues that should be considered and provides recommendations to resolve them prior to committing funds **Proceedings of the 1997 American Control Conference** American Automatic Control Council,1997 Knowledge Organization for Information Retrieval International Federation for Documentation. Committee on Classification Research,International Society for Knowledge Organization,1997 **Containing the Threat from Illegal Bombings** Committee on Marking, Rendering Inert, and Licensing of Explosive Materials,Commission on Physical Sciences, Mathematics, and Applications,Division on Engineering and Physical Sciences,National Research Council,1998-06-10 In response to the rising concern of the American public over illegal bombings the Bureau of Alcohol Tobacco and Firearms asked the National Research Council to examine possible mechanisms for reducing this threat The committee examined four approaches to reducing the bombing threat addition of detection markers to explosives for pre blast detection addition of identification taggants to explosives for post blast identification of bombers possible means to render common explosive materials inert and placing controls on explosives and their precursors The book makes several recommendations to reduce the number of criminal bombings in this country

Calabi-Yau Manifolds and Related Geometries Mark Gross,Daniel Huybrechts,Dominic Joyce,2012-12-06 This is an introduction to a very active field of research on the boundary between mathematics and physics It is aimed at graduate students and researchers in geometry and string theory Proofs or sketches are given for many important results From the reviews An excellent introduction to current research in the geometry of Calabi Yau manifolds hyper K hler manifolds exceptional holonomy and mirror symmetry This is an excellent and useful book MATHEMATICAL REVIEWS *Floods in a Changing Climate* Giuliano Di Baldassarre,2012-11-22 Flood inundation models enable us to make hazard predictions for floodplains mitigating increasing flood fatalities and losses This book provides an understanding of hydraulic modelling and

floodplain dynamics with a key focus on state of the art remote sensing data and methods to estimate and communicate uncertainty Academic researchers in the fields of hydrology climate change environmental science and natural hazards and professionals and policy makers working in flood risk mitigation hydraulic engineering and remote sensing will find this an invaluable resource This volume is the third in a collection of four books on flood disaster management theory and practice within the context of anthropogenic climate change The others are Floods in a Changing Climate Extreme Precipitation by Ramesh Teegavarapu Floods in a Changing Climate Hydrological Modeling by P P Mujumdar and D Nagesh Kumar and Floods in a Changing Climate Risk Management by Slodoban Simonovi **The Engineer** ,1868

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