



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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Michael Seilmaier



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High Performance Computing for Computational Science - VECPAR 2002 José M.L.M. Palma, 2003-04-07 This book constitutes the thoroughly refereed post proceedings of the 5th International Conference on High Performance Computing for Computational Science VECPAR 2002 held in Porto Portugal in June 2002 The 45 revised full papers presented together with 4 invited papers were carefully selected during two rounds of reviewing and improvement The papers are organized in topical sections on fluids and structures data mining computing in chemistry and biology problem solving environments computational linear and non linear algebra cluster computing imaging and software tools and environments

Robust Design Erica Jen, 2005 Robust Design brings together an eminent group of authors in a wide range of fields presenting aspects of robustness in biological ecological and computational systems

41st AIAA Aerospace Sciences Meeting & Exhibit, 2003 *Information Studies*, 2006

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

Mathematical Reviews, 2005 **Conference Proceedings**, 2002

Security Informatics and Terrorism Cecilia S. Gal, Paul B. Kantor, Bracha Shapira, 2008 Intended to be of interest to counter terrorism experts and professionals to academic researchers in information systems computer science political science and public policy and to graduate students in these areas this book highlights several aspects of patrolling the Web that were raised and discussed by experts from different disciplines

Key Maths GCSE Peter Sherran, 2002-09-10 This resource has been developed to provide additional support for delivering and supporting ICT at GCSE Linked to Key Maths it can be also be used together with other resources Each program contains a range of self contained activities that do not require a detailed understanding of the software

Implementing Certified Programming Language Tools in Dependent Type Theory Adam James Chlipala, 2007

2004 International Conference on Supercomputing, 2004 **A**

Biographical Dictionary of Civil Engineers in Great Britain and Ireland: 1500-1830 A. W. Skempton, 2002 This biographical reference work looks specifically at the lives works and careers of those individuals involved in civil engineering whose careers began before 1830

Indianapolis Monthly, 2002-11 Indianapolis Monthly is the Circle City s essential

chronicle and guide an indispensable authority on what's new and what's news Through coverage of politics crime dining style business sports and arts and entertainment each issue offers compelling narrative stories and lively urbane coverage of Indy's cultural landscape **ACM SIGPLAN Notices** ,2005 *The Athenaeum* ,1871 *The Literary Gazette and Journal of Belles Lettres, Arts, Sciences, &c* ,1841 *Literary Gazette and Journal of Belles Lettres, Arts, Sciences, Etc* ,1841
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