



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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**Adrian Muntean, Jens D. M.
Rademacher, Antonios Zagaris**



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Parallel Computing is Everywhere Sanzio Bassini, Gerhard R. Joubert, Frans Peters, 2018-03-15 The most powerful computers work by harnessing the combined computational power of millions of processors and exploiting the full potential of such large scale systems is something which becomes more difficult with each succeeding generation of parallel computers Alternative architectures and computer paradigms are increasingly being investigated in an attempt to address these difficulties Added to this the pervasive presence of heterogeneous and parallel devices in consumer products such as mobile phones tablets personal computers and servers also demands efficient programming environments and applications aimed at small scale parallel systems as opposed to large scale supercomputers This book presents a selection of papers presented at the conference Parallel Computing ParCo2017 held in Bologna Italy on 12 to 15 September 2017 The conference included contributions about alternative approaches to achieving High Performance Computing HPC to potentially surpass exa and zetascale performances as well as papers on the application of quantum computers and FPGA processors These developments are aimed at making available systems better capable of solving intensive computational scientific engineering problems such as climate models security applications and classic NP problems some of which cannot currently be managed by even the most powerful supercomputers available New areas of application such as robotics AI and learning systems data science the Internet of Things IoT and in car systems and autonomous vehicles were also covered As always ParCo2017 attracted a large number of notable contributions covering present and future developments in parallel computing and the book will be of interest to all those working in the field

Macroscopic and Large Scale Phenomena: Coarse Graining, Mean Field Limits and Ergodicity Adrian Muntean, Jens D. M. Rademacher, Antonios Zagaris, 2016-01-28 This book is the offspring of a summer school school Macroscopic and large scale phenomena coarse graining mean field limits and ergodicity which was held in 2012 at the University of Twente the Netherlands The focus lies on mathematically rigorous methods for multiscale problems of physical origins Each of the four book chapters is based on a set of lectures delivered at the school yet all authors have expanded and refined their contributions Francois Golse delivers a chapter on the dynamics of large particle systems in the mean field limit and surveys the most significant tools and methods to establish such limits with mathematical rigor Golse discusses in depth a variety of examples including Vlasov Poisson and Vlasov Maxwell systems Lucia Scardia focuses on the rigorous derivation of macroscopic models using Gamma convergence a more recent variational method which has proved very powerful for problems in material science Scardia illustrates this by various basic examples and a more advanced case study from dislocation theory Alexander Mielke's contribution focuses on the multiscale modeling and rigorous analysis of generalized gradient systems through the new concept of evolutionary Gamma convergence Numerous evocative examples are given e.g. relating to periodic homogenization and the passage from viscous to dry friction Martin G. Il and Evgeny Verbitskiy conclude this volume taking a dynamical systems and ergodic theory

viewpoint They review recent developments in the study of homoclinic points for certain discrete dynamical systems relating to particle systems via ergodic properties of lattices configurations

Unveiling the Energy of Verbal Art: An Psychological Sojourn through **Mark Scheme Maths June 2013 Variant**

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