

Subject - Math AA(Standard Level)
Topic - Number and Algebra
Year - May 2021 - Nov 2022
Paper -1
Answers

Question 1

- (a) attempting to use the change of base rule

M1

$$\log_3(\cos 2x + 2) = \frac{\log_2(\cos 2x + 2)}{\log_2 9}$$

A1

$$= \frac{1}{2} \log_3(\cos 2x + 2)$$

A1

$$= \log_3 \sqrt{\cos 2x + 2}$$

AG

[3 marks]

- (b) $\log_3(2 \sin x) = \log_3 \sqrt{\cos 2x + 2}$

M1

$$2 \sin x = \sqrt{\cos 2x + 2}$$

A1

$$4 \sin^2 x = \cos 2x + 2 \quad (\text{or equivalent})$$

(*M1*)

$$\text{use of } \cos 2x = 1 - 2 \sin^2 x$$

$$6 \sin^2 x = 3$$

$$\sin x = (\pm) \frac{1}{\sqrt{2}}$$

A1

$$x = \frac{\pi}{4}$$

A1

Note: Award *A0* if solutions other than $x = \frac{\pi}{4}$ are included.

[5 marks]

Total [8 marks]

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CH Cherryholmes



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Process Data in Educational and Psychological Measurement, 2nd Edition Hong Jiao, Qiwei He, Bernard Veldkamp, 2021-12-13 Publisher's note In this 2nd edition The following article has been added Jiao H He Q and Veldkamp BP 2021 Editorial Process Data in Educational and Psychological Measurement Front Psychol 12 793399 doi 10 3389 fpsyg 2021 793399 The following article has been added Reis Costa D Bolsinova M Tijnstra J and Andersson B 2021 Improving the Precision of Ability Estimates Using Time On Task Variables Insights From the PISA 2012 Computer Based Assessment of Mathematics Front Psychol 12 579128 doi 10 3389 fpsyg 2021 579128 The following article has been removed Minghui L Lei H Xiaomeng C and Potm ilc M 2018 Teacher Efficacy Work Engagement and Social Support Among Chinese Special Education School Teachers Front Psychol 9 648 doi 10 3389 fpsyg 2018 00648 The Math Pact, Middle School Sarah B. Bush, Karen S. Karp, Barbara J. Dougherty, 2020-09-19 A schoolwide solution for students mathematics success Do you sometimes start to teach a mathematics concept and feel like you're staring at a sea of bewildered faces What happens when you discover students previously learned a calculation trick or a mnemonic that has muddled their long term understanding When rules seem to change from year to year teacher to teacher or school to school mathematics can seem like a disconnected mystery for students Clear up the confusion with a Mathematics Whole School Agreement Expanded from the highly popular Rules that Expire series of NCTM articles this essential guide leads educators through the collaborative step by step process of establishing a coherent and consistent learner centered and equitable approach to mathematics instruction Through this work you will identify streamline and become passionate about using clear and consistent mathematical language notations representations rules and generalizations within and across classrooms and grades Importantly you'll learn to avoid rules that expire tricks that may seem to help students in one grade but hurt in the long run Features of this book include Abundant grade specific examples Effective working plans for sustainability Barrier busting tips to do and try it out Practical templates and checklists PLC prompts and discussion points When teachers unite across grades students hit the ground running every year Take the next step together as a team and help all your students build on existing understanding to find new success and most importantly love learning and doing mathematics **More Trouble with Maths** Steve Chinn, 2020-03-24 Now in an updated third edition this invaluable resource takes a practical and accessible approach to identifying and diagnosing many of the factors that contribute to mathematical learning difficulties and dyscalculia Using a combination of formative and summative approaches it provides a range of norm referenced standardised tests and diagnostic activities each designed to reveal common error patterns and misconceptions in order to form a basis for intervention Revised to reflect developments in the understanding of learning difficulties in mathematics the book gives a diagnostic overview of a range of challenges to mathematical learning including difficulties in grasping and retaining facts problems with mathematics vocabulary and maths anxiety Key features of this book include Photocopiable

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Automation 2023: Key Challenges in Automation, Robotics and Measurement Techniques Roman Szewczyk,Cezary Zieliński,Małgorzata Kaliczyńska,Vytautas Bučinskas,2023-02-04 This volume presents the results of recent research which supports the postulated transformation It contains papers written by both scientists and engineers dealing with diverse aspects of measuring techniques robotics mechatronics systems control industrial automation numerical modelling and simulation as well as application of artificial intelligence techniques required by the transformation of the industry towards the Industry 4 0 We strongly believe that the solutions and guidelines presented in this volume will be useful for both researchers and engineers solving problems that have emerged during the recent crisis

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