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 $log_4(\cos 2x + 2) = \frac{log_4(\cos 2x + 2)}{log_4(\cos 2x + 2)}$
	and the first
	$=\frac{1}{2}\log_3(\cos 2\pi + 2)$
	$=\log_2\sqrt{\cos 2x}+2$

(b) $\log_3(2\sin x) = \log_3 \sqrt{\cos 2x + 2}$ $2\sin x = \sqrt{\cos 2x + 2}$ (or equivalent)
Use of $\cos 2x - 1 - 2\sin^2 x$ (M1) $6\sin^2 x = 3$ $\sin x = (\pm) \frac{1}{\sqrt{2}}$

Note: Award A0 if solutions other than $x = \frac{\pi}{2}$ are included.

[5 marks]

[3 marks]

Total [8 marks]

M1 A1 A1

AT

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Educational Paths to Mathematics Uwe Gellert, Joaquim Giménez Rodríguez, Corinne Hahn, Sonia Kafoussi, 2015-05-18 This book offers fresh insight and understanding of the many ways in which children youth and adults may find their paths to mathematics. The chapters of the volume offer and analyse promising new ways into mathematics. The focus is on spaces and modalities of learning dialogue and inquiry embodiment and aesthetic experience information and communication technology and on the use of mathematics in public communication. The chapters present new mathematical activities and conceptions enriching the repertoire of mathematics education practices Critical commentaries discuss the innovative potential of the new approaches to the teaching and learning of mathematics As a consequence the commentaries point to requirements and open issues in the field of research in mathematics education The volume is remarkably international Teachers and researchers from 14 countries authored 21 chapters and 7 commentaries The reader is invited to reflect on the particular effect of presenting avenues to mathematics contrived in diverse national settings in which the praxis of mathematics education might look different compared to what happens in the reader's place. The book starts a series of sourcebooks edited by CIEAEM the Commission Internationale pour l Etude et l Am lioration de l Enseignement des Math matiques International Commission for the Study and Improvement of Mathematics Education Teaching Secondary and Middle School Mathematics Daniel J. Brahier, 2020-04-01 Teaching Secondary and Middle School Mathematics combines the latest developments in research technology and standards with a vibrant writing style to help teachers prepare for the excitement and challenges of teaching secondary and middle school mathematics. The book explores the mathematics teaching profession by examining the processes of planning teaching and assessing student progress through practical examples and recommendations Beginning with an examination of what it means to teach and learn mathematics the reader is led through the essential components of teaching concluding with an examination of how teachers continue with professional development throughout their careers Hundreds of citations are used to support the ideas presented in the text and specific websites and other resources are presented for future study by the reader Classroom scenarios are presented to engage the reader in thinking through specific challenges that are common in mathematics classrooms The sixth edition has been updated and expanded with particular emphasis on the latest technology resources and standards The reader is introduced to the ways that students think and how to best meet their needs through planning that involves attention to differentiation as well as how to manage a classroom for success Features include The entire text has been reorganized so that assessment takes a more central role in planning and teaching Unit 3 of 5 now addresses the use of summative and formative assessments to inform classroom teaching practices A new feature Links and Resources has been added to each of the 13 chapters While the book includes a substantial listing of citations and resources after the chapters five strongly recommended and practical resources are spotlighted at the end of each chapter as an easy reference to some of the most

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