

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

$$= \frac{1}{2} \log_2(\cos 2x + 2)$$

A1

$$= \log_2 \sqrt{\cos 2x + 2}$$

AG

[3 marks]

- (b) $\log_2(2 \sin x) = \log_2 \sqrt{\cos 2x + 2}$

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]

May 2010 Paper 1 Math Sl Answers

RS Peters



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Analytic Projective Geometry John Bamberg,Tim Penttila,2023-10-19 Projective geometry is the geometry of vision and this book introduces students to this beautiful subject from an analytic perspective emphasising its close relationship with linear algebra and the central role of symmetry Starting with elementary and familiar geometry over real numbers readers will soon build upon that knowledge via geometric pathways and journey on to deep and interesting corners of the subject Through a projective approach to geometry readers will discover connections between seemingly distant and ancient results in Euclidean geometry By mixing recent results from the past 100 years with the history of the field this text is one of the most comprehensive surveys of the subject and an invaluable reference for undergraduate and beginning graduate students learning classic geometry as well as young researchers in computer graphics Students will also appreciate the worked examples and diagrams throughout

Handbook of Special Education James M. Kauffman,Daniel P. Hallahan,Paige Cullen Pullen,2017-05-25 The purpose of the Handbook of Special Education is to help profile and bring greater clarity to the already sprawling and continuously expanding field of special education To ensure consistency across the volume chapter authors review and integrate existing research identify strengths and weaknesses note gaps in the literature and discuss implications for practice and future research The second edition has been fully updated throughout to take into account recent changes to federal laws as well as the most current academic research and an entirely new section has been added on research methods in special education

Anxiety Disorders in Childhood and Adolescence: Psychopathology, Assessment, and Treatment Mireia Orgilés,Jose P. Espada,José Manuel García-Fernández,Cecilia A. Essau,Francisco Javier Méndez,2022-07-14

PISA 2012 Assessment and Analytical Framework Mathematics, Reading, Science, Problem Solving and Financial Literacy OECD,2013-02-11 This book presents the conceptual framework underlying the fifth cycle of PISA which covers reading science and this year s focus mathematical literacy along with problem solving and financial literacy

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