

MATHEMATICS

1. As we know,

$$|z|^2 = z \bar{z}$$

$$\Rightarrow \frac{|z - \alpha|^2}{|z - \beta|^2} = k^2$$

$$\Rightarrow (z - \alpha)(\bar{z} - \bar{\alpha}) = k^2(z - \beta)(\bar{z} - \bar{\beta})$$

$$|z|^2 - \alpha\bar{z} - \bar{\alpha}z + |\alpha|^2 = k^2(|z|^2 - \beta\bar{z} - \bar{\beta}z + |\beta|^2)$$

$$\text{or } |z|^2(1 - k^2) - (\alpha - k^2\beta)\bar{z} - (\bar{\alpha} - \bar{\beta}k^2)z + (|\alpha|^2 - k^2|\beta|^2) = 0$$

$$\Rightarrow |z|^2 - \frac{(\alpha - k^2\beta)}{(1 - k^2)}\bar{z} - \frac{(\bar{\alpha} - \bar{\beta}k^2)}{(1 - k^2)}z + \frac{|\alpha|^2 - k^2|\beta|^2}{(1 - k^2)} = 0 \quad \dots\dots (i)$$

On comparing with equation of circle,

$$|z|^2 + a\bar{z} + \bar{a}z + b = 0$$

whose centre is $-a$ and radius $= \sqrt{|a|^2 - b}$

\therefore Centre for (i)

$$\Rightarrow \frac{\alpha - k^2\beta}{1 - k^2} \text{ and radius } = \sqrt{\left(\frac{\alpha - k^2\beta}{1 - k^2}\right)\left(\frac{\bar{\alpha} - \bar{\beta}k^2}{1 - k^2}\right) - \frac{|\alpha|^2 - k^2|\beta|^2}{1 - k^2}}$$

$$\text{radius} = \left| \frac{k(\alpha - \beta)}{1 - k^2} \right|$$

2. Here, $\vec{a} \times \vec{b} = \vec{c} \times \vec{d}$ and $\vec{a} \times \vec{c} = \vec{b} \times \vec{d}$

$$\Rightarrow \vec{a} \times \vec{b} - \vec{a} \times \vec{c} = \vec{c} \times \vec{d} - \vec{b} \times \vec{d}$$

$$\Rightarrow \vec{a} \times (\vec{b} - \vec{c}) = (\vec{c} - \vec{b}) \times \vec{d}$$

$$\Rightarrow \vec{a} \times (\vec{b} - \vec{c}) - (\vec{c} - \vec{b}) \times \vec{d} = 0$$

$$\Rightarrow \vec{a} \times (\vec{b} - \vec{c}) - \vec{d} \times (\vec{b} - \vec{c}) = 0$$

$$\Rightarrow (\vec{a} - \vec{d}) \times (\vec{b} - \vec{c}) = 0$$

$$\text{or } (\vec{a} - \vec{d}) \parallel (\vec{b} - \vec{c})$$

$$\therefore (\vec{a} - \vec{d}) \cdot (\vec{b} - \vec{c}) \neq 0$$

$$\vec{a} \cdot \vec{b} + \vec{d} \cdot \vec{c} \neq \vec{d} \cdot \vec{b} + \vec{a} \cdot \vec{c}$$

3. Here, n^2 objects are distributed in n groups, each group containing n identical objects.

$$\therefore \text{Number of arrangements} = {}^{n^2}C_n \cdot {}^{n^2-n}C_n \cdot {}^{n^2-2n}C_n \cdot {}^{n^2-3n}C_n \dots {}^nC_n$$

$$= \frac{(n^2)!}{n!(n^2-n)!} \cdot \frac{(n^2-n)!}{n!(n^2-2n)!} \dots \frac{n!}{n! \cdot 1} = \frac{(n^2)!}{(n!)^n} \Rightarrow \text{Integer}$$

(as number of arrangements has to be integer).

Maths Past Question Papers From 2004 To 2013 For C O S

Amit M Agarwal



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APC Question Bank and Sample Papers in Mathematics for Class 12 - Arya Publishing Company M.L. Aggarwal, Question Bank and Sample Papers in Mathematics for Class XII by Prof M L Aggarwal has been written according to the changed style of question paper relevant for 2015 Board Examinations The Salient Features of the book are Latest Sample Papers issued by the CBSE for 2015 Examinations with solutions Chapterwise Basic Concepts and Important Results Chapterwise Assignments for Practice 1 mark 4 marks 6 marks Chapterwise Questions from Previous Years Board Papers Ten Sample Papers for Practice 4 Solved 6 Unsolved CBSE Examination Paper 2014 Fully Solved Delhi and Outside Delhi **MTG 22 Years**

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social new media contexts school learning milieux and formal and informal situations It approaches adaptive learning from the perspectives of students teachers school leaders and participants in social media and other digitally mediated environments The book is a valuable resource for practitioners and academics who are interested in adaptivity as a learning disposition

Advances in Artificial Intelligence and Security Xingming Sun,Xiaorui Zhang,Zhihua Xia,Elisa Bertino,2021-06-29 The 3 volume set CCIS 1422 CCIS 1423 and CCIS 1424 constitutes the refereed proceedings of the 7th International Conference on Artificial Intelligence and Security ICAIS 2021 which was held in Dublin Ireland in July 2021 The total of 131 full papers and 52 short papers presented in this 3 volume proceedings was carefully reviewed and selected from 1013 submissions The papers were organized in topical sections as follows Part I artificial intelligence Part II artificial intelligence big data cloud computing and security Part III cloud computing and security encryption and cybersecurity information hiding IoT security

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The Aeolian Islands Volcanoes F. Lucchi, A. Peccerillo, J. Keller, C.A. Tranne, P.L. Rossi, 2013-12-05 The Aeolian Islands form one of the most active geological structures in the Mediterranean area comprising a number of active Stromboli and Vulcano and dormant Panarea and Lipari volcanoes They have attracted the attention of scientists in modern and historical times and are the cradle of the scientific discipline of volcanology This Memoir provides information on geological features of the Aeolian Islands volcanoes at a regional scale and for each island The stratigraphy structural evolution eruptive and magmatic history of the Islands is presented along with the geodynamic setting of the Aeolian volcanism and implications for magma origin and evolution processes Particular focus is given to the active and dormant volcanoes and the related natural hazards It includes a DVD with new 1:10 000 scale geological maps of the Aeolian Islands and bathymetric maps of sectors of the Aeolian archipelago together with an extended dataset of rock compositions

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Finance & Economics Readings Lee-Ming Tan, Evan Lau Poh Hock, Chor Foon Tang, 2018-03-05 This book is a compilation of the best papers presented at the 2017 installment of the Asia Pacific Conference on Economics Finance APEF which is held annually in Singapore With a great number of submissions it presents the latest research findings in economics and finance and discusses relevant issues in today's world The book is a useful resource for readers who want access to economics finance and business research focusing on the Asia Pacific region

Automatic Control, Robotics, and Information Processing Piotr Kulczycki, Józef Korbicz, Janusz Kacprzyk, 2020-09-03 This book presents a wide and comprehensive range of issues and problems in various fields of science and engineering from both theoretical and applied perspectives The desire to develop more effective and efficient tools and techniques for dealing with complex processes and systems has been a natural inspiration for the emergence of numerous fields of science and technology in particular control and automation and more recently robotics The contributions gathered here concern the

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Computing and Applications Jichun Li,Hongtao Yang,Eric Alexander Machorro,2013-04-24 This volume contains the proceedings of the Eighth International Conference on Scientific Computing and Applications held April 1 4 2012 at the University of Nevada Las Vegas The papers in this volume cover topics such as finite element methods multiscale methods finite difference methods spectral methods collocation methods adaptive methods parallel computing linear solvers applications to fluid flow nano optics biofilms finance magnetohydrodynamics flow electromagnetic waves the fluid structure interaction problem and stochastic PDEs This book will serve as an excellent reference for graduate students and researchers interested in scientific computing and its applications Understanding Mattessich and Ijiri Nohora Garcia,2017-11-16 This book deals with current discussion of the classic works by two prominent authors on accounting R

Mattessich and Y Ijiri Their antecedents and the way in which each author came to construct his work make up the central subject of this study

A Curriculum of Imagination in an Era of Standardization Robert Lake, 2013-03-01 A Curriculum of Imagination in an Era of Standardization In A Curriculum of Imagination in an Era of Standardization An Imaginative Dialogue with Maxine Greene and Paulo Freire a volume in Landscapes of Education Series Editors William H Schubert University of Illinois at Chicago Ming Fang He Georgia Southern University Robert Lake explores with the reader what is meant by imagination in the work of Maxine Greene and Paulo Freire and their relevance in an era of increasingly standardized and highly scripted practices in the field of education The author explores how imagination permeates every aspect of life with the intent to develop capacity with the readers to look beyond the taken for granted to question the normal to develop various ways of knowing seeing feeling and to imagine and act upon possibilities for positive social and educational change The principal aspect of the work illustrated in this book that distinguishes it from other work is that an imaginary dialogue between Maxine Greene and Paulo Freire runs through the book using actual citations from their work Each chapter starts with such a dialogue interspersed with the works of others and the author s critical autobiographical reflections With a brief overview of the socio cultural evolution of imagination from pre literate times to the present the author explores some of the current iterations of imagination including the eugenics movement and dark imagination sensing gaps and creative critical imagination metaphors as the language of imagination and empathy as social imagination Reflecting upon emerging tensions challenges and possibilities curriculum workers face in such an era of standardization the author calls for a curriculum of imagination After providing a brief overview of the socio cultural evolution of imagination from pre literate times to the present the author looks at some of the current iterations of imagination including the eugenics movement and dark imagination sensing gaps and creative critical imagination metaphors as the language of the imagination and empathy as social imagination All of these ideas are then incorporated in a curriculum of imagination that is envisioned through Joseph Schwab s four commonplaces of curriculum followed by a discussion of emerging tensions issues and possibilities for praxis and scholarship in present and future inquiry

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