

$$\beta = \lim_{x \rightarrow 0} \frac{x^2 \left(1 + \frac{1}{3} - \frac{1}{2}\right)}{x^2} \quad (\text{Neglecting higher powers of } x)$$

$$\text{So, } \beta = \frac{5}{6}$$

$$\text{or } 6\beta = 5$$

6. Let β be a real number. Consider the matrix $A = \begin{pmatrix} \beta & 0 & 1 \\ 2 & 1 & -2 \\ 3 & 1 & -2 \end{pmatrix}$. If $A^T - (\beta - 1)A^0 - \beta A^0$ is a singular matrix, then

the value of 9β is _____.

Answer (3)

Sol. $A = \begin{pmatrix} \beta & 0 & 1 \\ 2 & 1 & -2 \\ 3 & 1 & -2 \end{pmatrix}$

$$\det. (A) = -1$$

...(1)

For $A^T - (\beta - 1)A^0 - \beta A^0$ to be singular

$$|A^T| |A^T - (\beta - 1)A - \beta I| = 0$$

$$\Rightarrow |A^T| (|A + I| |A - \beta I|) = 0$$

...(2)

$$\therefore |A^T| |A + I| |A - \beta I| = 0$$

As $|A| \neq 0$

$$|A + I| \text{ or } |A - \beta I| = 0$$

$$\Rightarrow \begin{vmatrix} \beta+1 & 0 & 1 \\ 2 & 2 & -2 \\ 3 & 1 & -1 \end{vmatrix} = 0 \quad (|A + I| \neq 0)$$

Given, $-1 = 0$ (Rejected)

$$\therefore |A - \beta I| = \begin{vmatrix} 0 & 0 & 1 \\ 2 & 1 - \beta & -2 \\ 3 & 1 & -2 - \beta \end{vmatrix} = 0$$

$$\Rightarrow 2 - 3(1 - \beta) = 0$$

$$\Rightarrow 2 - 3 + 3\beta = 0$$

$$\Rightarrow \beta = \frac{1}{3}$$

$$\therefore 9\beta = 3$$

Maths Paper 2 Answer

RJ Shavelson



Maths Paper 2 Answer:

GCE O Level Examination Past Papers with Answer Guides: Maths India Edition Cambridge International Examinations,2004-03-03 These collections of the official past papers of the GCE O Level Examinations from the University of Cambridge International Examinations has been developed for students of GCE O level These books will act as tools for preparation and revision for students These books have an edited Answer Guide for each paper based on the marks scheme written by CIE Principal **My Exam Companion Maths Psle** , *Mathematics* Mark Patmore,Brian Seager,2006 Written by examiners and experienced teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and a revision guide *New A-Level Maths Edexcel Complete Revision & Practice (with Video Solutions)* ,2021-12-20 This superb all in one Complete Revision Practice Guide has everything students need to tackle the A Level Maths exams It covers every topic for the Edexcel course with crystal clear revision notes and worked examples to help explain any concepts that might trip students up It includes brand new Spot the Mistakes pages allowing students to find mistakes in mock answers as well as sections on Modelling Problem Solving and Calculator Use We ve also included exam style practice questions to test students understanding with step by step video solutions for some of the trickier exam questions For even more realistic exam practice make sure to check out our matching Edexcel Exam Practice Workbook 9781782947400 *The Pearson Guide to Complete Mathematics for AIEEE* Khattar Dinesh,2007-02 The second edition of The Pearson Guide to Complete Mathematics for AIEEE retains the basic structure and coverage of the previous edition while adding to it solved question papers of AIEEE 2005 and 2006 Spread over thirty two systematic and well written chapters this book covers the AIEEE syllabus completely and will also prove a useful guide for students appearing for state level engineering tests PETs *Army Maths* Cecil Gallopine Hall,1904 **Examinations Bulletin** Schools Council (Great Britain).,1972 *The Teachers' Aid* ,1894 **Dragon Gate** Kangmin Zeng,1999-01-04 This text examines the enormous pressure placed on University students in Japan Korea and Taiwan which have led to the rapid expansion of the cramming industry and to a growing number of students looking to religion and spirituality for guidance The book examines the issue of the rise in youth suicides and the dramatic rise in levels of cheating both raising fundamental questions about the education system in the late 1990s *Examination Papers* University of Madras,1921 The British National Bibliography Arthur James Wells,1998 *Commonwealth Universities Yearbook* T. Craig,Hugh W. Springer,1979 **The New Zealand Mathematics Magazine** ,1986 **The Australian Mathematics Teacher** ,1998 **Classroom Maths Games** ,1981 **Whitaker's Cumulative Book List** ,1963 **The Arithmetic Teacher** ,1992 Whe're ,1971-04 **Tests** Richard C. Sweetland,Daniel J. Keyser,1983 Descriptions of over 3000 tests in English intended as a guide for psychologists educators and other personnel who need test information to meet their assessment needs Topical arrangement under 3 main sections of psychology education and business Each entry gives test name associated personal names intended age group purpose

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