

**GRADE 11 MATHEMATICS  
NOVEMBER EXAMINATION PAPER 2**

**QUESTION 1**

1.1 Calculate the following with the use of a calculator:

1.1.1  $\sin 43^\circ + \cos 47^\circ$  (1)

1.1.2  $\tan^2 50^\circ$  (1)

1.1.3  $\cot 33^\circ + \operatorname{cosec} 15^\circ$  (1)

1.2 If  $A = 34,3^\circ$  and  $B = 22,2^\circ$ , calculate the following to two decimal places:

1.2.1  $\sin (A + B)$  (2)

1.2.2  $\sec \left( \frac{A}{2} \right)$  (2)

1.3 Calculate the following without the use of a calculator:

1.3.1  $\sin 30^\circ + \cos 60^\circ$  (1)

1.3.2  $\tan 45^\circ + \cos 45^\circ$  (1)

1.3.3  $\cos 90^\circ + \sin 90^\circ$  (1)

[12]

**QUESTION 2**

Without the use of a calculator, answer the following questions:

2.1 Given  $\cos \theta = -\frac{1}{2}$  and  $0^\circ \leq \theta \leq 180^\circ$   
Use a diagram to determine the values of:

2.1.1  $\tan (180^\circ + \theta)$  (1)

2.1.2  $3\sin (\theta - 90^\circ)$  (2)

2.2 Simplify the following expression:  $\frac{\sin(-230^\circ)}{\cos(240^\circ)} + \frac{\cos(190^\circ)}{\sin(260^\circ + 40^\circ)}$  (5)

2.3 Prove that:  $\tan \theta \sqrt{\frac{1}{\sin^2 \theta} - 1} = 1$  (4)

2.4 Determine the general solution for:  $3\sin^2 \theta + 1 = \sin \theta$  (6)

[28]

**QUESTION 3**

3.1 Sketch on the same set of axes the graphs for:

$f(x) = -2\cos x$  and  $g(x) = \sin 2x$ , for the interval  $-90^\circ \leq x \leq 180^\circ$ .

Show the coordinates of the turning points and all axis intercepts. (5)

3.2 Study the following sketch and determine the value of  $\cos \theta - \cos \phi$ , without the use of a calculator.



(5)  
[18]

**QUESTION 4**

In the diagram below, the angle between line AB and the x-axis is  $\beta$ . The angle between line CD and the x-axis is  $\theta$ . A and D are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B are  $(\sqrt{3}, 2)$ .

The intercept point E, of lines AB and CD lies on the y-axis.  $\angle EDC = 63,69^\circ$

The equation of the line CD is given as:  $3x + 2y = 6$



4.1 Determine the coordinates of E. (2)

4.2 Calculate the numerical value of  $\alpha$ . (2)

4.3 Calculate the numerical value of  $\beta$ . (2)

# Mathematics Memorandum Paper 2013 November

**Michael Seilmaier**



## **Mathematics Memorandum Paper 2013 November:**

### **Mathematics And Its Teaching In The Southern Americas: With An Introduction By Ubiratan D'ambrosio**

Hector Rosario, Bruce R Vogeli, Patrick Scott, 2014-09-26 This anthology presents a comprehensive review of mathematics and its teaching in the following nations in South America Central America and the Caribbean Argentina Bolivia Brazil Chile Colombia Costa Rica Cuba Guyana Haiti Honduras Mexico Panama Paraguay Peru Puerto Rico Trinidad and Tobago and Venezuela The last summary of mathematics education encompassing countries from the Southern Americas appeared in 1966 Progress in the field during five decades has remained unexamined until now Professional Development of

Mathematics Teachers Berinderjeet Kaur, Oh Nam Kwon, Yew Hoong Leong, 2016-11-14 This book offers a counterpart to the extensive corpus of literature available on the same topic from a Western perspective It showcases innovative approaches to professional development of mathematics teachers in Asian countries and reports on both empirical and expository studies of teachers professional development in these countries It provides scholars from non English speaking and under represented Asian countries the opportunity to engage in discourse with other scholars in the field and is the first book to present substantial contributions from scholars in Asia on the professional development of mathematics teachers in their respective countries It includes perspectives that shed valuable light on how the approaches pursued in Asian countries resemble or differ from those in the West **Study Guide for CTET Paper 2 (Class 6 - 8 Teachers) Mathematics/ Science with**

**Past Questions** Disha Experts, 2020-02-04 Applications of Polyfold Theory I: The Polyfolds of Gromov-Witten Theory H. Hofer, K. Wysocki, E. Zehnder, 2017-07-13 In this paper the authors start with the construction of the symplectic field theory SFT As a general theory of symplectic invariants SFT has been outlined in Introduction to symplectic field theory 2000 by Y Eliashberg A Givental and H Hofer who have predicted its formal properties The actual construction of SFT is a hard analytical problem which will be overcome by means of the polyfold theory due to the present authors The current paper addresses a significant amount of the arising issues and the general theory will be completed in part II of this paper To illustrate the polyfold theory the authors use the results of the present paper to describe an alternative construction of the Gromov Witten invariants for general compact symplectic manifolds Formality of the Little  $N$ -disks Operad Pascal

Lambrechts, Ismar Volić, 2014-06-05 The little disks operad along with its variants is an important tool in homotopy theory It is defined in terms of configurations of disjoint dimensional disks inside the standard unit disk and it was initially conceived for detecting and understanding fold loop spaces Its many uses now stretch across a variety of disciplines including topology algebra and mathematical physics In this paper the authors develop the details of Kontsevich's proof of the formality of little disks operad over the field of real numbers More precisely one can consider the singular chains as well as the singular homology of These two objects are operads in the category of chain complexes The formality then states that there is a zig zag of quasi isomorphisms connecting these two operads The formality also in some sense holds in the

category of commutative differential graded algebras The authors additionally prove a relative version of the formality for the inclusion of the little disks operad in the little disks operad when *South African national bibliography*, 1999 Classified list with author and title index *Engineering Optimization* R. Russell Rhinehart, 2018-05-29 An Application Oriented Introduction to Essential Optimization Concepts and Best Practices Optimization is an inherent human tendency that gained new life after the advent of calculus now as the world grows increasingly reliant on complex systems optimization has become both more important and more challenging than ever before Engineering Optimization provides a practically focused introduction to modern engineering optimization best practices covering fundamental analytical and numerical techniques throughout each stage of the optimization process Although essential algorithms are explained in detail the focus lies more in the human function how to create an appropriate objective function choose decision variables identify and incorporate constraints define convergence and other critical issues that define the success or failure of an optimization project Examples exercises and homework throughout reinforce the author's do not study approach to learning underscoring the application oriented discussion that provides a deep generic understanding of the optimization process that can be applied to any field Providing excellent reference for students or professionals Engineering Optimization Describes and develops a variety of algorithms including gradient based such as Newton's and Levenberg Marquardt direct search such as Hooke Jeeves Leapfrogging and Particle Swarm along with surrogate functions for surface characterization Provides guidance on optimizer choice by application and explains how to determine appropriate optimizer parameter values Details current best practices for critical stages of specifying an optimization procedure including decision variables defining constraints and relationship modeling Provides access to software and Visual Basic macros for Excel on the companion website along with solutions to examples presented in the book Clear explanations explicit equation derivations and practical examples make this book ideal for use as part of a class or self study assuming a basic understanding of statistics calculus computer programming and engineering models Anyone seeking best practices for making the best choices will find value in this introductory resource

**Irreducible Geometric Subgroups of Classical Algebraic Groups** Timothy C. Burness,, Soumaïa Ghandour, Donna M. Testerman, 2016-01-25 Let  $G$  be a simple classical algebraic group over an algebraically closed field of characteristic  $p$  with natural module  $V$  Let  $H$  be a closed subgroup of  $G$  and let  $W$  be a non trivial irreducible tensor indecomposable restricted rational module such that the restriction of  $W$  to  $H$  is irreducible In this paper the authors classify the triples of this form where  $H$  is a disconnected maximal positive dimensional closed subgroup of  $G$  preserving a natural geometric structure on  $V$  **CDS 12 Years Topic-wise Solved Papers Mathematics, English & General Knowledge (2007-2018) - 3rd Edition** Disha Experts, 2018-06-01 The thoroughly revised updated 3rd edition of CDS 12 Years Mathematics English General Knowledge Topic wise Solved Papers 2007 Feb 2018 Feb consists of last 12 years both Feb and November papers from 2007 Paper 1 2018 Paper 1 solved papers of Elementary Mathematics English and General Knowledge distributed into 42 topics In all

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On Sudakov's Type Decomposition of Transference Plans with Norm Costs Stefano Bianchini, Sara Daneri, 2018-02-23 The authors consider the original strategy proposed by Sudakov for solving the Monge transportation problem with norm cost with probability measures in and absolutely continuous w r t The key idea in this approach is to decompose via disintegration of measures the Kantorovich optimal transportation problem into a family of transportation problems in where are disjoint regions such that the construction of an optimal map is simpler than in the original problem and then to obtain by piecing together the maps When the norm is strictly convex the sets are a family of dimensional segments determined by the Kantorovich potential called optimal rays while the existence of the map is straightforward provided one can show that the disintegration of and thus of on such segments is absolutely continuous w r t the dimensional Hausdorff measure When the norm is not strictly convex the main problems in this kind of approach are two first to identify a suitable family of regions on which the transport problem decomposes into simpler ones and then to prove the existence of optimal maps In this paper the authors show how these difficulties can be overcome and that the original idea of Sudakov can be successfully implemented The results yield a complete characterization of the Kantorovich optimal transportation problem whose straightforward corollary is the solution of the Monge problem in each set and then in The strategy is sufficiently powerful to be applied to other optimal transportation problems

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