

**GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 2**

QUESTION 1

1.1 Calculate the following with the use of a calculator:

1.1.1 $\sin 42^\circ + \cos 42^\circ$ (1)

1.1.2 $\tan^2 30^\circ$ (1)

1.1.3 $\cot 32^\circ + \operatorname{cosec} 15^\circ$ (1)

1.2 If $A = 24,3^\circ$ and $B = 22,2^\circ$, calculate the following to two decimal places:

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

1.2.2 $\sin\left(\frac{A}{B}\right)$ (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 $3\sin(\theta - 90^\circ)$ (1)

2.2 Simplify the following expression: $\frac{\sin(-2\alpha)}{\cos(2\alpha)} + \frac{\cos(\alpha+90^\circ)}{\sin(2\alpha+90^\circ)}$ (1)

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

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

[20]

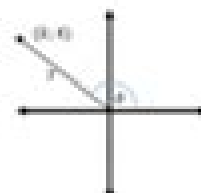
QUESTION 3

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 $\cos \theta - \sin \theta$, without the use of a calculator.



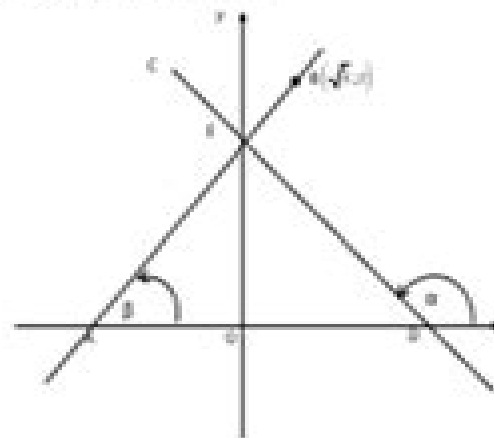
(5)
[10]

QUESTION 4

In the diagram below, the angle between line AB and the x-axis is β . The angle between line CD and the x-axis is θ . A and B are the x-axis intercept points for lines AB and CD respectively. The coordinates of point B are $(7, 4)$.

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

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 α . (2)

4.3 Calculate the numerical value of β . (2)

November 2013 Mathematics Memo Paper2

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Collected Papers, Volume XIV Florentin Smarandache, 2022-11-01 This fourteenth volume of *Collected Papers* is an eclectic tome of 87 papers in Neutrosophics and other fields such as mathematics fuzzy sets intuitionistic fuzzy sets picture fuzzy sets information fusion robotics statistics or extenics comprising 936 pages published between 2008 2022 in different scientific journals or currently in press by the author alone or in collaboration with the following 99 co authors alphabetically ordered from 26 countries Ahmed B Al Nafee Adesina Abdul Akeem Agboola Akbar Rezaei Shariful Alam Marina Alonso Fran Andujar Toshinori Asai Assia Bakali Azmat Hussain Daniela Baran Bijan Davvaz Bilal Hadjadji Carlos D az Bohorquez Robert N Boyd M Caldas Cenap zel Pankaj Chauhan Victor Christianto Salvador Coll Shyamal Dalapati Irfan Deli Balasubramanian Elavarasan Fahad Alsharari Yonfei Feng Daniela G fu Rafael Rojas Gualdr n Haipeng Wang Hemant Kumar Gianey Noel Batista Hern ndez Abdel Nasser Hussein Ibrahim M Hezam Ilanthenral Kandasamy W B Vasantha Kandasamy Muthusamy Karthika Nour Eldeen M Khalifa Madad Khan Kifayat Ullah Valeri Kroumov Tapan Kumar Roy Deepesh Kunwar Le Thi Nhung Pedro L pez Mai Mohamed Manh Van Vu Miguel A Quiroz Mart nez Marcel Migdalovici Kritika Mishra Mohamed Abdel Basset Mohamed Talea Mohammad Hamidi Mohammed Alshumrani Mohamed Loey Muhammad Akram Muhammad Shabir Mumtaz Ali Nassim Abbas Munazza Naz Ngan Thi Roan Nguyen Xuan Thao Rishwanth Mani Parimala Ion P tra cu Surapati Pramanik Quek Shio Gai Qiang Guo Rajab Ali Borzooei Nimitha Rajesh Jes s Estupi an Ricardo Juan Miguel Mart nez Rubio Saeed Mirvakili Arsham Borumand Saeid Saeid Jafari Said Broumi Ahmed A Salama Nirmala Sawan Gheorghe S voiu Ganeshsree Selvachandran Seok Zun Song Shahzaib Ashraf Jayant Singh Rajesh Singh Son Hoang Le Tahir Mahmood Kenta Takaya Mirela Teodorescu Ramalingam Udhayakumar Maikel Y Leyva V zquez V Venkateswara Rao Luige Vl d reanu Victor Vl d reanu Gabriela Vl deanu Michael Voskoglou Yaser Saber Yong Deng You He Youcef Chibani Young Bae Jun Wadei F Al Omeri Hongbo Wang Zayen Azzouz Omar

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Neutrosophic Sets and Systems, vol. 5/2014 A. A. Salama, O. M. Khaled, K. M. Mahfouz, S.

Broumi, F., Smarandache, K., Mondal, S., Praminik, M., Eisa, M., Ali, M., Neutrosophic Sets and Systems has been created for publications on advanced studies in neutrosophy, neutrosophic set, neutrosophic logic, neutrosophic probability, neutrosophic statistics that started in 1995 and their applications in any field such as the neutrosophic structures developed in algebra, geometry, topology, etc. Collected Papers, Volume VII Florentin Smarandache, 2022-02-01. This seventh volume of Collected Papers includes 70 papers comprising 974 pages on theoretic and applied neutrosophics written between 2013-2021 by the author alone or in collaboration with the following 122 co-authors from 22 countries: Mohamed Abdel Basset Abdel Nasser, Hussian C Alexander, Mumtaz Ali, Yaman Akbulut, Amir Abdullah, Amira S Ashour, Assia Bakali, Kousik Bhattacharya, Kainat Bibi, R N Boyd, Mit Budak, Lulu Cai, Cenap Zel Chang, Su Kim Victor, Christianto, Chunlai Du, Chunxin Bo, Rituparna Chutia, Cu Nguyen Giap, Dao The Son, Vinayak Devvrat, Arindam Dey, Partha Pratim Dey, Fahad Alsharari, Feng Yongfei, S Ganesan, Shivam Ghildiyal, Bibhas C Giri, Masooma Raza Hashmi, Ahmed Refaat, Hawas Hoang, Viet Long Le Hoang, Son Hongbo, Wang Hongnian, Yu Mihaiela, Iliescu Saeid, Jafari Temitope, Gbolahan Jaiyeola, Naeem Jan, R Jeevitha, Jun Ye, Anup Khan, Madad Khan, Salma Khan, Ilanthenral, Kandasamy W B, Vasantha, Kandasamy Darjan, Karaba evi, Kifayat Ullah, Kishore Kumar, P K Sujit, Kumar De, Prasun Kumar, Nayak Malayalan, Lathamaheswari, Luong Thi Hong, Lan Anam, Luqman, Luu Quoc, Dat Tahir, Mahmood Hafsa, M Malik, Nivetha, Martin Mai, Mohamed Parimala, Mani Mingcong, Deng Mohammed, A Al Shumrani, Mohammad Hamidi, Mohamed Talea, Kalyan Mondal, Muhammad Akram, Muhammad Gulistan, Farshid Mofidnakhaei, Muhammad Shoib, Muhammad Riaz, Karthika, Muthusamy, Nabeela, Ishfaq, Deivanayagampillai, Nagarajan, Sumera, Naz, Nguyen Dinh Hoa, Nguyen Tho Thong, Nguyen Xuan Thao, Noor ul Amin, Dragan Pamucar, Gabrijela Popovi, S Krishna, Prabha, Surapati, Pramanik, Priya, R Qiaoyan, Li Yaser, Saber Said, Broumi, Saima, Anis, Saleem, Abdullah, Ganeshsree, Selvachandran, Abdulkadir, Sengr, Seyed Ahmad, Edalatpanah, Shahbaz, Ali, Shahzaib, Ashraf, Shouzhen, Zeng, Shio Gai, Quek, Shuangwu, Zhu, Shumaiza, Sidra, Sayed, Sohail, Iqbal, Songtao, Shao, Sundas, Shahzadi, Dragi, Stanujki, eljko, Stevi, Udhayakumar, Ramalingam, Zunaira, Rashid, Hossein, Rashmanlou, Rajkumar, Verma, Luige, Vl d reanu, Victor, Vl d reanu, Desmond, Jun Yi, Tey, Sel uk, Topal, Naveed, Yaqoob, Yanhui, Guo, Yee, Fei, Gan, Yingcang, Ma, Young, Bae, Jun, Yuping, Lai, Hafiz, Abdul, Wahab, Wei, Yang, Xiaohong, Zhang, Edmundas, Kazimieras, Zavadskas, Lemnaouar, Zedam. Neutrosophic Sets and Systems, Vol. III Florentin Smarandache, Mumtaz Ali, This volume is a collection of ten papers written by different authors and co-authors listed in the order of the papers: F Yuhua, A A Salama, F Smarandache, S A Alblowi, M Ali, M Shabir, M Naz, A A A Agboola, S A Akinleye, M Dhar, S Broumi, P Biswas, S Pramanik, B C Giri, H A El Ghareeb, A M Maine, V Kandasamy, P Sekar, and J Vidhyalakshmi. In first paper the author proposed Expanding Newton Mechanics with Neutrosophy and Quad stage Method New Newton Mechanics Taking Law of Conservation of Energy as Unique Source Law. The Characteristic Function of a Neutrosophic Set is proposed in the second paper. Neutrosophic Left Almost Semigroup is studied in third paper. In fourth paper Neutrosophic Hypercompositional Structures defined by Binary Relations are introduced. Similarly in fifth paper A Note on Square

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Reframing Economics Roger A McCain,2014-03-28 The objectives of this book are twofold Firstly it proposes that economics should be defined as a study of imperfect cooperation Secondly it elucidates the continuities that extend from classical political economy through the neoclassical Keynesia

Topics in Domination in Graphs Teresa W. Haynes,Stephen T. Hedetniemi,Michael A. Henning,2020-10-19 This volume comprises 16 contributions that present advanced topics in graph domination featuring open problems modern techniques and recent results The focus is on primary dominating sets such as paired domination connected domination restrained domination dominating functions Roman domination and power domination Additionally surveys include known results with a sample of proof techniques for each parameter Of extra benefit to the reader the first chapter includes a glossary of commonly used terms the second chapter provides an overview of models of domination from which the parameters are defined The book is intended to provide a reference for established researchers in the fields of domination and graph theory and graduate students who wish to gain knowledge of the topics covered as well as an overview of the major accomplishments in the field and proof techniques used

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Formality of the Little \mathbb{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 in \mathbb{R}^n 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 on 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 *Multivariate, Multilinear and Mixed Linear Models*
Katarzyna Filipiak, Augustyn Markiewicz, Dietrich von Rosen, 2021-10-01 This book presents the latest findings on statistical inference in multivariate multilinear and mixed linear models providing a holistic presentation of the subject It contains pioneering and carefully selected review contributions by experts in the field and guides the reader through topics related to estimation and testing of multivariate and mixed linear model parameters Starting with the theory of multivariate distributions covering identification and testing of covariance structures and means under various multivariate models it goes on to discuss estimation in mixed linear models and their transformations The results presented originate from the work of the research group Multivariate and Mixed Linear Models and their meetings held at the Mathematical Research and Conference Center in Białe Pole Poland over the last 10 years Featuring an extensive bibliography of related publications the book is intended for PhD students and researchers in modern statistical science who are interested in multivariate and mixed linear models

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