

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

2.2 Simplify the following expression:  $\frac{\sin(-2\alpha)}{\cos(2\alpha)} + \frac{\cos(\alpha+90^\circ)}{\sin(3\alpha+45^\circ)}$  (5)

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)

[28]

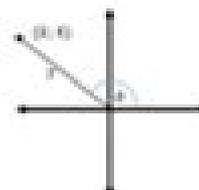
**QUESTION 3**

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  $\cos \theta - \sin \theta$ , 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 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  $\alpha$ . (2)

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

# Mathematics Paper 2 Grade November 2014

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## **Mathematics Paper 2 Grade November 2014:**

Using Peer Tutoring to Improve Reading Skills Keith Topping, David Duran, Hilde Van Keer, 2015-10-08 Using Peer Tutoring to Improve Reading Skills is a very practical guide offering a straightforward framework and easy to implement strategies to help teachers help pupils progress in reading A succinct introduction it shows how schools can make positive use of differences between pupils and turn them into effective learning opportunities Outlining the evidence base supporting peer tutoring approaches it explores the components of the reading process and explains how peer tutoring in reading can be used with any method of teaching reading Core topics covered include Planning and implementing peer tutoring Getting your school on board How to structure effective interaction Training peer tutors and tutees Paired Reading cross ability approaches One Book for Two fostering fluency reading comprehension and motivation Reading in Pairs cross and same year tutoring Supporting struggling readers Involving families in peer tutoring Evaluation and feedback Illustrated throughout with practical examples from diverse schools across Europe Using Peer Tutoring to Improve Reading Skills is an essential introduction offering easy to use guidelines that will support teachers in primary and secondary schools as they enhance pupil motivation and improve reading standards

*Literature Review Practices in Psychology: Contemplative Papers from 2023 Undergraduate Students* Tri Kristianti, Mega Salsal Bella, Rizki Wahyu Nurcahyo, Imroati Istibsyaroh Ar Ruhimat, Esy Suraeni Yuniwati [dan 46 lainnya], 2024-06-26 Dive into the depths of knowledge with our comprehensive literature review research book This meticulously curated compilation offers a panoramic view of scholarly works spanning various disciplines and subjects From groundbreaking theories to nuanced analyses each chapter unveils a treasure trove of insights guiding researchers on their quest for understanding and innovation Whether you re a seasoned academic or an aspiring scholar this book serves as an indispensable companion illuminating pathways through the vast landscape of literature enriching minds and inspiring new avenues of inquiry Embark on a journey of intellectual exploration and discovery with our literature review research book today

Introduction to Teaching Gene E. Hall, Linda F. Quinn, Donna M. Gollnick, 2018-11-29 An ideal introductory text for aspiring teachers Introduction to Teaching Making a Difference in Student Learning is grounded in the realities and complexities found in today s schools Acclaimed authors Gene E Hall Linda F Quinn and Donna M Gollnick thoroughly prepare readers to make a difference as teachers presenting firsthand stories and evidence based practices while offering a student centered approach to learning The authors focus on how to address one of the biggest challenges facing many of today s schools ensuring that all students are learning and help teachers prioritize student learning as their primary focus From true to life challenges that future teachers will face such as high stakes testing reduced funding low retention and Common Core State Standards to the inspiration and joy they will experience throughout their teaching careers the Third Edition paints an importantly authentic picture of the real life of a teacher

**Effective Medium-term Planning for Teachers** Lee Jerome, Marcus Bhargava, 2015-01-21 Effective medium term planning is the holy grail of planning Once

teachers are able to conceptualise learning over a longer period of time they are empowered to achieve outstanding learning as part of their everyday teaching This book explains why medium term plans are important and how to go about constructing them Key coverage includes Practical guidance to support teachers to build their own effective medium term plans Examples of planning in action exploring key principles that can be applied to your own practice Theoretical and practical justifications for the importance of medium term planning Exploration of the links between raising attainment and effective medium term planning This is essential reading for initial teacher education students on university based and school based courses preparing to teach in primary and secondary education and early career teachers seeking to continue their professional learning

**ECGBL2015-9th European Conference on Games Based Learning** Robin Munkvold and Line Kolås,2015-09-18 These proceedings represent the work of researchers participating in the 9th European Conference on Games Based Learning which is being hosted this year by Nord Trondelag University College Steinkjer Norway on the 8 9 October 2015 The Conference has become a key platform for individuals to present their research findings display their work in progress and discuss conceptual advances in many different areas and specialties within Games Based Learning It also offers the opportunity for like minded individuals to meet discuss and share knowledge ECGBL continues to evolve and develop and the wide range of papers and topics will ensure an interesting two day conference In addition to the main streams of the conference there are mini tracks focusing on the areas of the design of multiplayer collaborative serious games applied Games and gamification the teacher s role in game based learning games for STEM Science Technology Engineering Mathematics learning assessment of digital game based learning and pervasive and ubiquitous gaming for learning In addition to the presentations of research we are delighted to host the third year of the Serious Game competition which provides an opportunity for educational game designers and creators to participate in the conference and demonstrate their game design and development skills in an international competition This competition is again sponsored by SEGAN Serious Games Network With an initial submission of more than 60 games 28 finalists will present their games at the conference Prizes will be awarded to the games judged to demonstrate the best quality and originality of game play itself and the positioning and articulation of the game s contribution to the educational domain With an initial submission of 190 abstracts after the double blind peer review process there are 75 research papers 15 PhD research papers 4 Non Academic papers and 8 work in progress papers published in these Conference Proceedings These papers represent research from more than 40 countries including Australia Austria Belgium Brazil Bulgaria Canada Czech Republic Denmark Finland France Germany Greece Hungary Ireland Israel Italy Japan Malaysia Norway Portugal Russia Saudi Arabia Slovakia Slovenia South Africa Spain Sweden Switzerland Taiwan ROC The Netherlands The Netherlands United Arab Emirates UK and USA

**Intelligent Human Computer Interaction** Uma Shanker Tiwary,Santanu Chaudhury,2020-04-11 This volume constitutes the proceedings of the 11th International Conference on Intelligent Human Computer Interaction IHCI 2019 held

in Allahabad India in December 2019 The 25 full papers presented in this volume were carefully reviewed and selected from 73 submissions The papers are grouped in the following topics EEG and other biological signal based interactions natural language speech and dialogue processing vision based interactions assistive living and rehabilitation and applications of HCI

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**The Advertiser's ABC of Official Scales & Charges and Advertisement Press Directory** ,1895     *Canadian Books in Print* ,1986     **Australian Education Index** ,1980     **The City Record** New York (N.Y.),1918     *The Status of Pre-college Science, Mathematics, and Social Science Education, 1955-1975* ,1978     St. Louis Daily Market Reporter and Merchants Exchange Price Current ,1884     **Who's who in America** ,2003     *Parliamentary Debates (Hansard)*. Great Britain. Parliament. House of Commons,2013     *Government Reports Announcements* ,1971

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