

**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  $\cos \theta = -\frac{1}{5}$  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:  $\frac{\sin(-230^\circ)}{\cos(240^\circ)} + \frac{\cos(190^\circ)}{\sin(260^\circ + \pi)}$  (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)  
[10]

**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 Paper 2013 November

**A Gutmann**



## **Mathematics Paper 2013 November:**

**Early mathematics counts** Yasmin A Sitabkhan, Linda Platas, 2018-07-23 This occasional paper examines common instructional strategies in early grade mathematics interventions through a review of studies in classrooms in low and middle income countries Twenty four studies met the criteria for inclusion and analyses reveal four sets of instructional strategies for which there is evidence from multiple contexts Of the 24 studies 16 involved the use of multiple representations 10 involved the use of developmental progressions 6 included supporting student use of explanation and justification and 5 included integration of informal mathematics Based on the review we provide conclusions and recommendations for future research and policy

**Contributing Factors to TIMSS 2011 Eighth Graders' Science Achievement: A Comparison between Malaysia and Singapore** Lay Yoon Fah, Ng Khar Thoe, Suma Parahakaran, 2020-05-03 Trends in International Mathematics and Science Study TIMSS is one of the projects of the International Association for the Evaluation of Educational Achievement IEA located at Amsterdam The Netherlands and Hamburg Germany IEA is an independent cooperative of national educational research institutions and governmental research agencies dedicated to improving education TIMSS is conducted regularly for every four years to assess students achievement in science and mathematics at both the fourth and eighth grades The project is dedicated to providing participating countries with information to improve teaching and learning in science and mathematics This book is written especially for the interest of undergraduate students postgraduate students and educators of science education who wish to know more about the contributing factors to Grade 8 students science achievement in TIMSS This book is also resourceful for individuals who are involved directly or indirectly in the administration and implementation of TIMSS at the national state district and school levels This book consists of seven chapters The first chapter gives a brief introduction to TIMSS which includes the TIMSS curriculum model and TIMSS science assessment frameworks The subsequent chapters compare the contribution of various factors i e home environment support school resources school climate teacher preparation and classroom instructions on Malaysian and Singaporean Grade 8 students science achievement in TIMSS 2011 Last but not least recommendations on ways to improve Malaysian Grade 8 students science achievement in the forthcoming TIMSS are suggested based on the experiences of the Singaporean education system

The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties Steve Chinn, 2014-11-20 Mathematics plays an important part in every person s life so why isn t everyone good at it The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties brings together commissioned pieces by a range of hand picked influential international authors from a variety of disciplines all of whom share a high public profile More than fifty experts write about mathematics learning difficulties and disabilities from a range of perspectives and answer questions such as What are mathematics learning difficulties and disabilities What are the key skills and concepts for learning mathematics How will IT help now and in the future What is the role of language and vocabulary How should we

teach mathematics By posing notoriously difficult questions such as these and studying the answers The Routledge International Handbook of Dyscalculia and Mathematical Learning Difficulties is the authoritative volume and is essential reading for academics in the field of mathematics It is an incredibly important contribution to the study of dyscalculia and mathematical difficulties in children and young adults How the Brain Learns Mathematics David A. Sousa,2014-11-13 To reach all your math students use your brain and theirs too This updated bestseller takes readers to the next level with new brain friendly strategies backed by the latest research and even more ways to seamlessly incorporate what you learn about your students developing minds into your math classroom Discover the cognitive mechanisms for learning math explore factors that contribute to learning difficulties and follow a four step teaching model that relates classroom experience to real world applications Features include New strategies for motivating adolescents Integration of the arts into mathematics instruction New information on how technology affects attention and memory Expanded sections on number sense and ELL instruction More than 160 new references **A Unique Geological Heritage: Meerschaum** Alp Baran Erkul,2022-12-27 A Unique Geological Heritage Meerschaum Alp Baran Erkul ISBN 978 605 06802 3 2 Kitab n t m geliri novasyon in E itim Vakf na ba lanmaktad r Elde edilen gelir ile entelekt el seviyesi y ksek gen lerin e itimi ve start up lar desteklenmektedir Ayr ca e itlik ve kapsay c l k g zetilmektedir **Building a Curious School** Bryan Goodwin,2020-03-19 Unleash the power of curiosity and the joy of learning Curiosity is hardwired in all of us but the longer students stay in school the less curious they become Why is that Building a Curious School uncovers the many subtle ways in which formal education seems to hinder our natural curiosity and reveals how rekindling a sense of wonder in schools can prime the pump for learning foster a culture of engagement grow better educational leaders and prepare students and staff to lead more fulfilling lives Grounded in research this engaging examination of curiosity shows educators how to intentionally cultivate inquisitiveness and wonder in teaching and learning It includes A plethora of activities ideas and tips to encourage curiosity Compelling examples of curiosity at work in schools businesses and communities Tools for supporting curiosity in ways that spark meaningful conversations and promote empathy equity and social emotional learning If you ve ever wondered anything really just out of curiosity then you ve got what it takes to lead your school to restored curiosity and your students to wellbeing and success This book lays out a vision as to the way schools can and should be approached to stimulate curiosity as a natural part of the teaching learning process Robert J Marzano Cofounder and CAO Marzano Resources Cofounder and Strategic Advisor Marzano Research A powerful must read for all educators who want learning not only to be lively but also impactful and meaningful for every student Lyn Sharratt Internship Supervisor Ontario Institute for Studies in Education University of Toronto Canada Kochi Journal of Mathematics ,2014 **Journal of Technology Education** ,2014 **SIAM Journal on Scientific Computing** ,1998 **Transactions** American Institute of Mining, Metallurgical, and Petroleum Engineers,1986 Some vols 1920 1949 contain collections of papers according to subject The Indian National Bibliography

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