

**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: $\frac{\sin (-230^\circ)}{\cos (260^\circ)} + \frac{\cos (90^\circ)}{\sin (260^\circ + 40^\circ)}$ (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)
[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 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 α . (2)

4.3 Calculate the numerical value of β . (2)

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Maths Paper 2 Caps Grade 11 2013:

Improving Primary Mathematics Education, Teaching and Learning Mellony Graven, Hamsa Venkat, 2017-01-19 This book focuses on how to improve the teaching and learning of primary level mathematics education within resource constrained contexts. It builds on two large numeracy projects within South Africa which speak to broader global concerns and highlight how research and development not only enables one to meet ethical imperatives but also explore how further interventions can be developed. Teacher and research communities must work together to create mutually beneficial relationships and establish a cohesive understanding of the requirements of primary mathematics education. **Education Systems Around the World** Gilson Porto, 2020-04-08 This book Education Systems Around the World is a collection of reviewed and relevant research chapters that offer a comprehensive overview of recent developments in the field of social sciences and humanities. The book comprises single chapters authored by various researchers and edited by an expert active in the field of social studies and humanities. All chapters are unique but are united under a common research study topic. This publication aims to provide a thorough overview of the latest research efforts by international authors on social studies and humanities and open new possible research paths for further novel developments. Learning and Teaching Early Math Douglas H. Clements, Julie Sarama, 2020-12-29 The third edition of this significant and groundbreaking book summarizes current research into how young children learn mathematics and how best to develop foundational knowledge to realize more effective teaching. Using straightforward practical language, early math experts Douglas Clements and Julie Sarama show how learning trajectories help teachers understand children's level of mathematical understanding and lead to better teaching. By focusing on the inherent delight and curiosity behind young children's mathematical reasoning, learning trajectories ultimately make teaching more joyous, helping teachers understand the varying levels of knowledge exhibited by individual students. It allows them to better meet the learning needs of all children. This thoroughly revised and contemporary third edition of Learning and Teaching Early Math remains the definitive research-based resource to help teachers understand the learning trajectories of early mathematics and become confident, credible professionals. The new edition draws on numerous new research studies, offers expanded international examples, and includes updated illustrations throughout. This new edition is closely linked with Learning and Teaching with Learning Trajectories LT 2, an open access web-based tool for early childhood educators to learn about how children think and learn about mathematics. Head to LearningTrajectories.org for ongoing updates, interactive games, and practical tools that support classroom learning.

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Advancing Knowledge and Building Capacity for Early Childhood Research Sharon Ryan,M. Elizabeth Graue,Vivian L. Gadsden,Felice J. Levine,2021-01-20 This volume employs a multidisciplinary approach to research on a high profile topic very much on the agenda of state and national policy leaders early childhood development and education It aims to reflect how scholarly perspectives shape the contours of knowledge generation and to illuminate the gaps that prevent productive interchange among scholars who value equity in the opportunities available to young children their families and teachers caregivers The editors and authors identify and prioritize critical research areas assess the state of the field in terms of promising research designs and methodologies and identify capacity building needs and potential cross group collaborations

Annual Report Mpumalanga (South Africa). Department of Education,2014

Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2013

Normal Instructor and Teachers World ,1924

Permacrisis and the Policy Continuum in the UK Anémone Kober-Smith,Anne Beauvallet,2025-11-28 This book examines the UK s enduring permacrisis austerity policies Brexit climate change inflation and the rising cost of living through the lens of the policy response to the COVID 19 pandemic as part of a policy continuum The book demonstrates that the policy continuum cannot be considered as a mere attempt to tackle a range of social and economic issues but also as contributing to forging the permacrisis sui generis It concludes that the government s policy responses before during and after the pandemic presented various flaws in

governance leadership and execution constituting a crucial part of the permacrisis in the UK Evidencing this through its assessment of policy outcomes in a number of key public policy fields such as mental health care and education the book explores the impact of the pandemic on wide ranging and long term inequalities and vulnerable populations This book is of key interest to scholars and students of British politics policy studies and more broadly sociology and social policy El-Hi
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