



**GRADE 11 MATHEMATICS
NOVEMBER EXAMINATION PAPER 1**

QUESTION 1

1.1 Solve for x :

1.1.1 $x^2 + 3x + 2 = 0$ (2)

1.1.2 $3x + 10x + 5 = 0$ (2)

1.1.3 $x = \sqrt{25} + 2$ (2)

1.1.4 $\log x + 2\log x = 10$ (2)

1.1.5 $x^2 = 9$ (2)

1.1.6 $2^{3x} + 4^{3x} = 32$ (2)

1.2 Simultaneously solve x and y

$x + y = 1$ and $3x^2 + 4xy + y^2 = 0$ (2)

1.3 Solve the following inequalities:

1.3.1 $x^2 + 3x + 2 < 0$ (2)

1.3.2 $-6x + 5 > 3x - 12 < 0$ (2)

P4

QUESTION 2

2.1 $x = -0.5 \pm 0.5\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (2)

2.2 Given $g(x) = \frac{2x^2 + 1}{x + 1}$

2.2.1 For what values of x will $g(x)$ be undefined? (2)

2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations) (2)

2.3 Solve $x + 2\sqrt{x} + 1 < 0$. Graphically represent your answer. (2)

2.4 Simplify and leave an answer with positive exponents only:

$$\frac{x^2 - 4}{x^2 + 4x + 4} \div \frac{x^2 - 9}{x^2 + 3x}$$

(2)

2.5 Without solving the equation, determine the nature of the roots of $4x^2 + 3x + 1$. (2)

P4

QUESTION 3

3.1 The first three terms of a linear series is given as: $1x - 2$, $x + 5$, $3x + 2$

3.1.1 Determine the value of x . (2)

3.1.2 Determine the numerical value of T_5 . (2)

3.2 Given the quadratic series: $-1(2) - 4(1) - 4(0) - 2(1) \dots$

3.2.1 Determine the next two terms of the series. (2)

3.2.2 Determine T_n , the general term of the pattern. (2)

3.2.3 Given that $T_n = -4n^2 + 10n - 2$, determine the largest possible numerical value for T_n . (2)

3.3 Given $T_n = 12 - 3n$:

3.3.1 Which term in the series would be equal to -178 ? (2)

3.3.2 Determine the numerical value for the 17th term. (2)

3.4 James and John look at the following patterns:

Pattern 1	Pattern 2	Pattern 3

James says if he increases the pattern number by one, squares that number and then subtracts the pattern number increased by one he will get the general formula.

John says he can derive the general formula for the number of dots by taking the number of columns in each pattern and multiplying it by the number of rows.

Who is correct between James and John? Show your answer.

(2)

P4

QUESTION 4

Given: $g(x) = \frac{2x^2 + 1}{x + 1}$ and $g(x) = -x^2$. The point $(1, -1)$ lies on g .

4.1 Determine the value of a . (2)

4.2 Draw a neat sketch of the two graphs on the same sets. Show all intercepts with the axes and asymptotes clearly. (2)

4.3 Determine the sets of intervals of x that has a positive gradient. (2)

P4

Grade 11 Mathematics Paper 1 5 November 2014

**Robert Reys, Mary Lindquist, Diana V.
Lambdin, Nancy L. Smith, Anna
Rogers, Leicha Bragg, Audrey
Cooke, Melissa Fanshawe, Mark Gronow**

Grade 11 Mathematics Paper 1 5 November 2014:

Bringing the Common Core Math Standards to Life Yvelyne Germain-McCarthy, Ivan Gill, 2014-11-20 As high school math teachers shift to the Common Core State Standards the question remains What do the standards actually look like in the classroom This book answers that question by taking you inside of real Common Core classrooms across the country You ll see how exemplary teachers are meeting the new requirements and engaging students in math Through these detailed examples of effective instruction you will uncover how to bring the standards to life in your own classroom Special Features A clear explanation of the big shifts happening in the classroom as a result of the Common Core State Standards Real examples of how exemplary teachers are using engaging strategies and tasks to teach algebra geometry trigonometry statistics mathematics across the curriculum and more A detailed analysis of each example to help you understand why it is effective and how you can try it with your own students Practical ready to use tools you can take back to your classroom including unit plans and classroom handouts

The Meritocracy Trap Daniel Markovits, 2020-09-08 A revolutionary new argument from eminent Yale Law professor Daniel Markovits attacking the false promise of meritocracy It is an axiom of American life that advantage should be earned through ability and effort Even as the country divides itself at every turn the meritocratic ideal that social and economic rewards should follow achievement rather than breeding reigns supreme Both Democrats and Republicans insistently repeat meritocratic notions Meritocracy cuts to the heart of who we are It sustains the American dream But what if both up and down the social ladder meritocracy is a sham Today meritocracy has become exactly what it was conceived to resist a mechanism for the concentration and dynastic transmission of wealth and privilege across generations Upward mobility has become a fantasy and the embattled middle classes are now more likely to sink into the working poor than to rise into the professional elite At the same time meritocracy now ensnares even those who manage to claw their way to the top requiring rich adults to work with crushing intensity exploiting their expensive educations in order to extract a return All this is not the result of deviations or retreats from meritocracy but rather stems directly from meritocracy s successes This is the radical argument that Daniel Markovits prosecutes with rare force Markovits is well placed to expose the sham of meritocracy Having spent his life at elite universities he knows from the inside the corrosive system we are trapped within Markovits also knows that if we understand that meritocratic inequality produces near universal harm we can cure it When The Meritocracy Trap reveals the inner workings of the meritocratic machine it also illuminates the first steps outward towards a new world that might once again afford dignity and prosperity to the American people

The Mathematics Practitioner's Guidebook for Collaborative Lesson Research Akihiko Takahashi, Geoffrey Wake, 2023-10-04 This resource provides mathematics educators with tools for conducting Collaborative Lesson Research CLR a form of Lesson Study developed out of the original Japanese Lesson Study and intended to improve student and teacher learning Renowned mathematics education researchers Akihiko Takahashi and Geoffrey Wake bring together

educators across the US and UK with first hand experience using CLR in their schools Readers will learn the essentials for an impactful Lesson Study directly from the scholars who coined the term and benefit from the dual perspectives of math education researchers and teachers who have used CLR when reflecting on their own classroom pedagogy These contributors define CLR and provide examples of successful CLR using real life case studies as well as introducing pathways for getting started and practical suggestions for implementation into different school environments Across these examples readers will understand the essence of Lesson Study considered as CLR and its important features be advised what participants in CLR should expect to do observing research lessons designing lessons teaching research lessons facilitating post lesson discussion etc and provide guidance and support with this enactment be advised on how to develop embed and sustain CLR communities preview potential outcomes over time from undertaking CLR Research lesson proposals and plans to support readers in understanding CLR are also included Ideal for practicing teachers teacher leaders teacher educators and professional developers involved in mathematics teaching this book offers first of its kind entry points for CLR Its combination of theory and practice will empower educators to implement this increasingly popular vehicle for understanding students learning of mathematics

The Boy Crisis Warren Farrell, John Gray, 2018-03-13 What is the boy crisis It s a crisis of education Worldwide boys are 50 percent less likely than girls to meet basic proficiency in reading math and science It s a crisis of mental health ADHD is on the rise And as boys become young men their suicide rates go from equal to girls to six times that of young women It s a crisis of fathering Boys are growing up with less involved fathers and are more likely to drop out of school drink do drugs become delinquent and end up in prison It s a crisis of purpose Boys old sense of purpose being a warrior a leader or a sole breadwinner are fading Many bright boys are experiencing a purpose void feeling alienated withdrawn and addicted to immediate gratification So what is The Boy Crisis A comprehensive blueprint for what parents teachers and policymakers can do to help our sons become happier healthier men and fathers and leaders worthy of our respect

ICTES 2018 Robbi Rahim, Kadek Suranata, Ifdil Ifdil , Itsar Bolo Rangka, 2019-03-13 The technical program of The First ICTES 2018 consisted of 114 full papers Aside from the high quality technical paper presentations we also held workshop and clinic manuscript that was carried out before the main track aims to strengthen the ability to write scientific publications Coordination with the steering chairs Dr Kadek Suranata S Pd M Pd Kons and the members of organizing committee is essential for the success of the conference We sincerely appreciate all the Advisory Boards for the constant support and guidance It was also a great pleasure to work with such an excellent organizing committee team for their hard work in organizing and supporting the conference In particular the Scientific Committee led by Cand Dr Robbi Rahim M Kom have completed the peer review process of technical papers and made a high quality technical program We are also grateful to Students Conference chairs were leading by Ida Ayu Made Diah Paramiswari for their support and all the authors who submitted their papers to the First ICTES 2018 We strongly believe that ICTES conference provides a good forum for all

academicians researchers and practitioners to discuss all Educational science and technology aspects that are relevant to issues and challenge for sustainability in the 4th industrial revolution We also expect that the future ICTES conference will be as successful and stimulating as indicated by the contributions presented in this volume On Your Mark Thomas R. Guskey,2014-08-05 Create and sustain a learning environment where students thrive and stakeholders are accurately informed of student progress Clarify the purpose of grades craft a vision statement aligned with this purpose and discover research based strategies to implement effective grading and reporting practices Identify policies and practices that render grading inaccurate and understand the role grades play in students future success and opportunities *Helping Children Learn Mathematics, 5th Australian Edition* Robert Reys,Mary Lindquist,Diana V. Lambdin,Nancy L. Smith,Anna Rogers,Leicha Bragg,Audrey Cooke,Melissa Fanshawe,Mark Gronow,2025-10-10 Mathematics and Technology Gilles Aldon,Fernando Hitt,Luciana Bazzini,Uwe Gellert,2017-04-05 This volume collects most recent work on the role of technology in mathematics education It offers fresh insight and understanding of the many ways in which technological resources can improve the teaching and learning of mathematics The first section of the volume focuses on the question how a proposed mathematical task in a technological environment can influence the acquisition of knowledge and what elements are important to retain in the design of mathematical tasks in computing environments The use of white smart boards platforms as Moodle tablets and smartphones have transformed the way we communicate both inside and outside the mathematics classroom Therefore the second section discussed how to make efficient use of these resources in the classroom and beyond The third section addresses how technology modifies the way information is transmitted and how mathematical education has to take into account the new ways of learning through connected networks as well as new ways of teaching The last section is on the training of teachers in the digital era The editors of this volume have selected papers from the proceedings of the 65th 66th and 67th CIEAEM conference and invited the correspondent authors to contribute to this volume by discussing one of the four important topics The book continues a series of sourcebooks edited by CIEAEM the Commission Internationale pour l'étude et l'amélioration de l'Enseignement des Mathématiques International Commission for the Study and Improvement of Mathematics Education **Helping Children Learn Mathematics** Robert Reys,Mary Lindquist,Diana V. Lambdin,Nancy L. Smith,Anna Rogers,Audrey Cooke,Sue Bennett,Bronwyn Ewing,John West,2020-01-21 The third edition of Reys Helping Children Learn Mathematics is a practical resource for undergraduate students of primary school teaching Rich in ideas tools and stimulation for lessons during teaching rounds or in the classroom this edition continues to provide a clear understanding of how to navigate the Australian Curriculum with detailed coverage on how to effectively use Information and Communications Technology ICT in the classroom This is a full colour printed textbook with an interactive ebook code included Great self study features include auto graded in situ knowledge check questions video of teachers demonstrating how different maths topics can be taught in the classroom and animated branched chain scenarios

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