**GRADE 11 MATHEMATICS**

**NOVEMBER EXAMINATION PAPER 1**

## QUESTION 1

1.1 Solve for $x$:

1.1.1 $x^2 - 5x - 6 = 0$ (2)

1.1.2 $(2x - 3)(x + 1) = 9$ (3)

1.1.3 $x - \sqrt{2 - x} = 3$ (4)

1.1.4 $x(x + 10) > -25$ (4)

1.1.5 $x^{\frac{2}{3}} = 4$ (3)

1.1.6 $2^{2x} - 4^{x-3} = 12$ (4)

1.2 Simultaneously solve $x$ and $y$:

$2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (6)

1.3 Solve the following inequalities:

1.3.1 $x^2 + 5x - 6 > 0$ (3)

1.3.2 $-3(x + 1)(x - 2) < 0$ (3)

**[31]**

## QUESTION 2

2.1 $x = -3 \pm 2\sqrt{2}$ are the roots of a quadratic function, $f(x)$, of which the y-intercept is 4. Determine $f(x)$. (5)

2.2 Given: $g(x) = \frac{x^2 - 2x + 1}{x - 4}$

2.2.1 For which values of $x$ will $g(x)$ be undefined. (2)

2.2.2 Explain why $g(x)$ will never equal zero. (Show all your calculations). (3)

2.3 Solve $x$ if $\frac{2x}{x+3} < 6$. Graphically represent your answer. (5)

2.4 Simplify and leave an answer with positive exponents only:

$$\sqrt{\frac{y^4 \cdot 9^{x+1}}{27^{x+2}}}$$ (4)

2.5 Without solving the equation, determine the nature of the roots of: $4x^2 = 2x + 1$ (5)

**[24]**

## QUESTION 3

3.1 The first three terms of a linear series, is given as: $3x - 2; x + 9; 2x + 5$

3.1.1 Determine the value of $x$. (3)

3.1.2 Determine the numerical value of $T_1$. (2)

3.2 Given the quadratic series: $-128; -94; -48; -28; \ldots$

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

3.2.1 Determine $T_n$, the general term of the pattern. (3)

3.2.3 Given that $T_n = -4x^2 + 54x - 188$, determine the largest *possible* numerical value for $T_n$. (4)

3.3 Given $T_n = 13 - 3n$:

3.3.1 Which term in the series would be equal to -179. (3)

3.3.2 Determine the numerical value for the 11th 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, square that number and then subtract the pattern number increased by one he will get the general formula.

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

Who is correct between James and John? Prove your answer. (5)

**[24]**

## QUESTION 4

Given: $f(x) = \frac{-3}{x+4} - 1$ and $g(x) = -a^x$. The point $(1; -3)$ lies on $g$.

4.1 Determine the value of $a$. (2)

4.2 Draw a neat sketch of the two graphs on the same axis. Show all intercepts with the axes and asymptote clearly. (5)

4.3 Determine the axis of symmetry of $f$ that has a positive gradient. (2)

**[9]**

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# Maths Paper Grade 11

**Lingjun Ying**

**Maths Paper Grade 11:**

X-kit FET Grade 11 Mathematics Irma Kühn,2007 *Maths Handbook and Study Guide Grade 11* Kevin Smith,2017-11-01 The Maths Handbook Study Guide is a comprehensive reference book and set of notes that covers everything in one book The book is written in a clear simple visual and logical manner The colour coding facilitates explanations definitions formulas recaps of previous work hints and ideas It is easy to read easy to understand and it is easy to apply what has been learnt It works in conjunction with all other Maths books It is a welcome addition to the Handbook and Study Guide series The Maths Handbook and Study Guide demystifies Maths and helps students to reach their potential in this challenging subject The sub title of the book is Maths Made Easy and this is what it aims to do Kevin ensures that his work is up to date at all times and that it is suitable for IEB and National Curriculum students There are exercises in the front of the book and solutions to problems at the back Mathematics 2 Kunihiko Kodaira, See the blurb for Japanese Grade 10 *Mathematics for Life and Work A Comparative Perspective on Mathematics to Inform Upper Secondary Reform in England* OECD,2024-11-05 Engagement and performance in mathematics at the upper secondary level have been the concern of successive governments in England This report was commissioned as part of the country s policy reflections for transforming how maths is viewed and experienced in England The report explores outcomes such as the share of students studying maths and performance across countries and how education systems internationally deliver mathematics in upper secondary It also examines factors shaping maths education including the expectations set by curricula student pathways cultural perceptions and the needs of the labour market and higher education *Oswaal ISC 10 Sample Question Papers Class 12 (Set of 5 Books) Physics, Chemistry, Maths, English Paper 1 & 2 For 2025 Board Exam (Based On The Latest CISCE/ICSE Specimen Paper)* Oswaal Editorial Board,2024-09-09 Description of the product Fresh Relevant with the Latest ICSE Specimen Paper 2025 Score Boosting Insights with 450 Questions 250 Concepts approx Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready Practice with 5 Solved 5 Self Assessment Papers with Hints Online Courses with Oswaal 360 Courses and sample Papers to enrich the learning journey further Strictly as per the Latest Syllabus Specimen Paper 2025 Issued by CISCE Includes Competency Focused questions based on Bloom s Taxonomy Create Evaluate Analyse Apply Understand and Remember Official Marking Scheme Decoded *Resources in Education* ,2001

**Math Brain Teasers Grade 5** Mary Rosenberg,2003-04-14 Brain teasers designed to help reinforce basic math skills such as factors and number crossword puzzles Includes answer key Canadian Books in Print. Author and Title Index ,1975 Key Maths GCSE ,2002 These Teacher Files are designed to supplement and support the material covered at GCSE Exceptionally Gifted Children Miraca U. M. Gross,2003-12-16 Exceptionally Gifted Children is unique The first edition of this book published in 1993 introduced 15 remarkable children some of the most gifted young people ever studied and traced their path through school exploring their academic achievements and in some cases enforced underachievement their

emotional development their social relationships and their family relationships and upbringing This new edition reviews these early years but also follows the young people over the subsequent ten years into adulthood No previous study has traced so closely and so sensitively the intellectual social and emotional development of highly gifted young people This 20 year study reveals the ongoing negative academic and social effects of prolonged underachievement and social isolation imposed on gifted children by inappropriate curriculum and class placement and shows clearly the long lasting benefits of thoughtfully planned individual educational programs The young adults of this study speak out and show how what happened in school has influenced and still influences many aspects of their lives Miraca Gross provides a clear practical blueprint for teachers and parents who recognise the special learning needs of gifted children and seek to respond effectively **AQA Mathematics** Bob Hartman,2006 Written by examiners and practising teachers this work offers study and homework support throughout GCSE It is useful as a reference source a lesson back up and a revision guide **Key Maths GCSE.** David Baker,2002 Developed for the OCR Specification revised for the new National Curriculum and the new GCSE specifications The Teacher File contains detailed support and guidance on advanced planning points of emphasis key words notes for the non specialist useful supplementary ideas and homework sheets Research for Educational Change Jill Adler,Anna Sfard,2016-06-17 Research for Educational Change presents ways in which educational research can fulfil its commitments to educational practice Focussing its discussion within the context of mathematics education it argues that while research generated insights can have beneficial effects on learning and teaching the question of how these effects are to be generated and sustained is far from evident The question of how to turn research into educational improvement is discussed here in the context of learning and teaching hindered by poverty and social injustice In the first part of the book four teams of researchers use different methodologies while analysing the same corpus of data collected in a South African mathematics classroom In the second part each of these teams makes a specific proposal about what can be done and how so that its research generated insights have a tangible beneficial impact on what is happening in mathematical classrooms Combining two discourses that of researchers speaking to one another and that of researchers communicating their insights to those responsible for educational practice the book deals with the perenial question of communication between those who study educational processes and those who are directly responsible for teacher education educational research and classroom practices This book will be key reading for postgraduates researchers and academics in education and particularly in the areas of mathematics education education research teacher education and classroom practice It will also appeal to teacher educators practitioners and undergraduate students interested in educational research *Fractals, Graphics, and Mathematics Education* Michael Frame,Benoit Mandelbrot,2002-06-20 Publisher Description **Reviews of National Policies for Education: Kyrgyz Republic 2010 Lessons from PISA** OECD,2010-11-30 This report explains the reasons for the dramatically low performance of Kyrgyz students in the 2006 PISA survey despite significant resources and efforts

invested in education by schools parents and government and makes recommendations to Kyrgyz authorities for policy improvement **Math Tools, Grades 3-12** Harvey F. Silver,John R. Brunsting,Terry Walsh,2008 Math Tools Grades 3 12 presents a broad collection of mathematics instruction tools that promote active in depth learning and help ensure that all students meet high standards The authors experts with years of experience in mathematics education combine the research on learning styles with 64 classroom tested tools and show teachers how to use them to differentiate instruction and meet the needs of all students Organized around four mathematical learning styles mastery understanding self expressive and interpersonal this resource also covers lesson design and assessment using the math tools *Milliken's Complete Book of Math Reproducibles - Grade 1* ,2009-09-01 This activity book of over 110 ready to use reproducible pencil to paper worksheets are ideal for enrichment or for use as reinforcement Perfect for use at school or as homework they feature basic math skills including fractions decimals measurement time money and much more Bro I'm Still Figuring It Out Revanth,2025-06-26 Bro I m Still Figuring It Out Isn t a success story It s a survival story A real messy and sometimes hilarious look into growing up when you have no manual no map and way too many expectations From late night doubts to unexpected wins this is a journey of showing up messing up and finding yourself anyway It is a story of invisible battles quiet wins epic mess ups and the people who show up when you least expect it It s not about having everything sorted It s about learning to stay even when life feels like a glitchy app with no instructions If you ve ever felt like you re the only one still figuring life out trust me you re not **7th Grade Math Is Easy! So Easy** Nathaniel Max Rock,2006-02 Rock offers a guide to what it takes to master seventh grade math Education Oswaal ISC 10 Sample Question Papers Class 12 Mathematics For Board Exams 2024 (Based On The Latest CISCE/ ISC Specimen Paper) Oswaal Editorial Board,2023-10-10 Description of the product Fresh Relevant with 2024 ICSE ISC Specimen Paper Fully Solved Score Boosting Insights with 500 Questions 1000 Concepts Insider Tips Techniques with On Tips Notes Mind Maps Mnemonics Exam Ready Practice with 10 Highly Probable SQPs

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