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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 $x - \sqrt{x - 1} = 3$ (4)

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

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

1.1.6 $2^{2x} - 4^{x-1} = 12$ (4)

1.2 Simultaneously solve x and y:

$2x - y = 1$ and $3x^2 - 4xy + y^2 = 0$ (5)

1.3 Solve the following inequalities:

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

1.3.2 $-3(x + 1)(x - 2) \leq 0$ (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: $g(x) = \frac{x^2 - 12x + 4}{2 - x}$

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: $\frac{2 - x}{x + 1} < 0$. Graphically represent your answer. (5)

2.4 Simplify and leave an answer with positive exponents only:

$$\sqrt[4]{\frac{p^3 \cdot p^{n+1}}{p^{2n+2}}}$$ (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_5. (2)

3.2 Given the quadratic series: $-128; -84; -48; -20; \ldots$

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 $T_n = -4n^2 + 56n - 180$; 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 11^{th} 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)

[34]

QUESTION 4

Given: $f(x) = \frac{-1}{x+1} - 1$ 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 simmetry of f that has a positive gradient. (2)

[9]

Mathematics Paper 1 November 2014 Grade 11

New York (N.Y.)

Mathematics Paper 1 November 2014 Grade 11:

The Education Invasion Joy Pullmann,2017-03-14 Most Americans had no idea what Common Core was in 2013 according to polls But it had been creeping into schools nationwide over the previous three years and children were feeling its effects They cried over math homework so mystifying their parents could not help them even in elementary school They read motley assortments of informational text instead of classic literature They dreaded the high stakes tests in unfamiliar formats that were increasingly controlling their classrooms How did this latest and most sweeping reform of American education come in mostly under the radar Joy Pullmann started tugging on a thread of reports from worried parents and frustrated teachers and it led to a big tangle of history and politics intrigue and arrogance She unwound it to discover how a cabal of private foundation honchos and unelected public officials cooked up a set of rules for what American children must learn in core K 12 classes and how the Obama administration pressured states to adopt them Thus a federalized education scheme took root despite legal prohibitions against federal involvement in curriculum Common Core and its testing regime were touted as an absolute game changer in public education yet the evidence so far suggests that kids are actually learning less under it Why then was such a costly and disruptive agenda imposed on the nation s schools Who benefits And how can citizens regain local self governance in education so their children s minds will be fed a more nourishing intellectual diet and be protected from the experiments of emboldened bureaucrats The Education Invasion offers answers and remedies

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 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 approaces 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 *Mentalidades Matemáticas* Jo Boaler,2017-09-08 Embora todo ser humano seja capaz de aprender matem tica em altos n veis e apaixonar se pela disciplina ao longo de seus anos na escola e para toda a vida todos n s temos ou conhecemos algu m que tem uma hist ria de fracasso frustra o ou pavor relacionada matem tica Neste livro Jo Boaler aponta raz es pelas quais a disciplina se tornou a grande vil das experi ncias escolares dos estudantes E com base em sua extensa pesquisa a autora revela como professores gestores e pais podem ajud los a transformar suas ideias e experi ncias com a matem tica ao desenvolver neles uma mentalidade de crescimento Com exemplos eficazes Mentalidades matem ticas um importante guia de informa es t cnicas e atividades pr ticas que podem ser implementadas dentro e fora das salas de aula para tornar a aprendizagem da matem tica mais agrad vel e acess vel para todos os alunos *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 are in the e text The ^APragmatist Joseph P. Viteritti,2017-08-03 The two main characters of Joseph P Viteritti s The Pragmatist Bill de Blasio and New York City itself are used to tell the story of the rise fall and rebirth of progressivism in America s major urban center and in the process introduce us to the contributions and distractions of every mayor since La Guardia demonstrating that the road to progress was never a direct journey *Government Reports Announcements* ,1971

Editor & Publisher ,1928 The fourth estate *The Advertiser's ABC of Official Scales & Charges and Advertisement Press Directory* ,1895 *The City Record* New York (N.Y.),1918 **Dry Goods Merchants Trade Journal** ,1925 Australian Education Index ,1980 *Normal Instructor* ,1966 **The Uganda Gazette** Uganda,2015-12 U S NEWS ULTIMATE COLLEGE DIRECTORY 2004 MCGRATH ANNE (EDITOR),2003 *Machinery* Lester Gray French,1924 **Forthcoming Books** Rose Arny,2003 **St. Louis Daily Market Reporter and Merchants Exchange Price Current** ,1884 Journal of Developmental Education ,2015 *The College Handbook* College Entrance Examination Board,1985 Presents information on 4 year colleges and universities and 2 year community colleges and technical schools

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