

Ekurhuleni North	District Paper – Mathematics Paper 2 Grade 11 Marking Guideline	June 2023
SOLUTION NB: Accept valid alternate solutions. Consistent Accuracy applies to the whole memo.		
QUESTION 1		
1.1	$m_{HM} = \frac{6 - 4}{3 + 1}$ $= \frac{1}{2}$	✓ subs into formula ✓ answer
1.2	$R(x; y) = \left(\frac{3 + 4}{2}; \frac{6 + 1}{2} \right)$ $= \left(\frac{7}{2}; \frac{7}{2} \right)$	✓ Correct Substitution ✓ Answer
1.3	$m_{HM} = m_{AP}$ $\tan \theta = \frac{1}{2}$ $\theta = 26,57^\circ$	✓ $HM \parallel AT$ ✓ Correct substitution ✓ Answer
1.4	R is the midpoint of diagonal AH (Diags of a parm) Let the coordinates of A be $(x; y)$. $\frac{-1 + x}{2} = \frac{7}{2}$ $x = 8$ $\frac{4 + y}{2} = \frac{7}{2}$ $y = 3$ $\therefore A(8; 3)$	$\checkmark \frac{-1+x}{2} = \frac{7}{2}$ $\checkmark 8$ $\checkmark \frac{4+y}{2} = \frac{7}{2}$ $\checkmark 3$
1.5	$m_{AT} = \frac{1}{2} \text{ (parallel lines)}$ $y = \frac{1}{2}x + c$ Sub $T(4; 1)$	 ✓ Sub $T(4; 1)$ ✓ $c = -1$

Ana Maths June 2014 Memo

**Aldo Gangemi, Anna Lisa
Gentile, Andrea Giovanni
Nuzzolese, Sebastian Rudolph, Maria
Maleshkova, Heiko Paulheim, Jeff Z
Pan, Mehwish Alam**

Ana Maths June 2014 Memo:

California Dreaming Lawrence J. McQuillan, 2015-05-01 A politically created crisis of epic proportions is brewing in California and elsewhere across the United States For decades public pension officials and politicians of both parties have promised their employees increasingly generous retirement benefits while low balling the contributions from government agencies and employees that are needed to cover these promises presenting our greatest financial challenge since the Great Depression Pushing the pension liability from today and onto our children and grandchildren leaves them with a depleted future and a potentially bankrupt California State and local governments will scramble to find funds forcing them to raise taxes slash public services and or declare bankruptcy Schools parks emergency services and public employee retirement benefits will be at risk Politicians will defer until circumstances force them to reckon with a disaster of their own making The problem For far too long state and local governments have promised their employees increasingly generous retirement benefits but without ensuring that sufficient funds will be on hand when the pension payments come due In California Dreaming Lawrence J McQuillan pulls back the curtains covering this unfunded liability crisis He describes the true extent of the problem explains the critical factors that are driving public pension debt sky high and exposes the perverse incentives of lawmakers and pension officials that reward them for not fixing the problem and letting it escalate Finally he offers the six crucial reforms needed to restore the financial health of California and other threatened jurisdictions If California Dreaming s roadmap for reform is adopted the prospects for achieving a thriving balanced and equitable future are highly favorable in California and any state or municipality facing its own public pension problem If not the many opportunities that once made the Golden State seem like a Promised Land will quickly evaporate

Access to Scientific Research David J.

Brown, 2015-11-13 The debate about access to scientific research raises questions about the current effectiveness of scholarly communication processes This book explores from an independent point of view the current state of the STM publishing market new publishing technologies and business models as well as the information habit of researchers the politics of research funders and the demand for scientific research as a public good The book also investigates the democratisation of science including how the information needs of knowledge workers outside academia can be embraced in future

Around Langlands Correspondences Farrell Brumley, Maria Paula Gomez Aparicio, Alberto Minguéz, 2017 Presents through a mix of research and expository articles some of the fascinating new directions in number theory and representation theory arising from recent developments in the Langlands program Special emphasis is placed on nonclassical versions of the conjectural Langlands correspondences where the underlying field is no longer the complex numbers

An Age of Accountability John L. Rury, 2023-10-13 An Age of Accountability highlights the role of test based accountability as a policy framework in American education from 1970 to 2020 For more than half a century the quest to hold schools and educators accountable for academic achievement has relied almost exclusively on standardized assessment The theory of

system The theoretical empirical and practice based contributions assembled here present recommendations for more effective public policy working towards a world in which women s diverse roles are recognized and fully accounted for This book is a unique collection which will be of great relevance to those studying gender and economics as well as to researchers or policy makers

21 [The Semantic Web: ESWC 2018 Satellite Events](#) Aldo Gangemi,Anna Lisa Gentile,Andrea Giovanni Nuzzolese,Sebastian Rudolph,Maria Maleshkova,Heiko Paulheim,Jeff Z Pan,Mehwish Alam,2018-08-01 This book constitutes the thoroughly refereed post conference proceedings of the Satellite Events of the 15th Extended Semantic Web Conference ESWC 2018 held in Heraklion Crete Greece in June 2018 The volume contains 41 poster and demonstration papers 11 invited workshop papers and 9 full papers selected out of a total of 70 submissions They deal with all areas of semantic web research semantic technologies on the Web and Linked Data Ontology ABox Comparison is available open access under a Creative Commons Attribution 4 0 International License via link [springer com](#)

Open Problems in Algebraic Combinatorics Christine Berkesch,Benjamin Brubaker,Gregg Musiker,Pavlo Pylyavskyy,Victor Reiner,2024-08-21 In their preface the editors describe algebraic combinatorics as the area of combinatorics concerned with exact as opposed to approximate results and which puts emphasis on interaction with other areas of mathematics such as algebra topology geometry and physics It is a vibrant area which saw several major developments in recent years The goal of the 2022 conference Open Problems in Algebraic Combinatorics 2022 was to provide a forum for exchanging promising new directions and ideas The current volume includes contributions coming from the talks at the conference as well as a few other contributions written specifically for this volume The articles cover the majority of topics in algebraic combinatorics with the aim of presenting recent important research results and also important open problems and conjectures encountered in this research The editors hope that this book will facilitate the exchange of ideas in algebraic combinatorics

Lie Theory and Its Applications in Physics Vladimir Dobrev,2023-01-29 This volume presents modern trends in the area of symmetries and their applications based on contributions to the Workshop Lie Theory and Its Applications in Physics held in Sofia Bulgaria on line in June 2021 Traditionally Lie theory is a tool to build mathematical models for physical systems Recently the trend is towards geometrization of the mathematical description of physical systems and objects A geometric approach to a system yields in general some notion of symmetry which is very helpful in understanding its structure Geometrization and symmetries are meant in their widest sense i e representation theory algebraic geometry number theory infinite dimensional Lie algebras and groups superalgebras and supergroups groups and quantum groups noncommutative geometry symmetries of linear and nonlinear partial differential operators special functions and others Furthermore the necessary tools from functional analysis are included This is a big interdisciplinary and interrelated field The topics covered in this Volume are the most modern trends in the field of the Workshop Representation Theory Symmetries in String Theories Symmetries in Gravity Theories Supergravity Conformal

Field Theory Integrable Systems Quantum Computing and Deep Learning Entanglement Applications to Quantum Theory Exceptional quantum algebra for the standard model of particle physics Gauge Theories and Applications Structures on Lie Groups and Lie Algebras This book is suitable for a broad audience of mathematicians mathematical physicists and theoretical physicists including researchers and graduate students interested in Lie Theory Introduction to Lipschitz Geometry of Singularities Walter Neumann, Anne Pichon, 2021-01-11 This book presents a broad overview of the important recent progress which led to the emergence of new ideas in Lipschitz geometry and singularities and started to build bridges to several major areas of singularity theory Providing all the necessary background in a series of introductory lectures it also contains Pham and Teissier's previously unpublished pioneering work on the Lipschitz classification of germs of plane complex algebraic curves While a real or complex algebraic variety is topologically locally conical it is in general not metrically conical there are parts of its link with non trivial topology which shrink faster than linearly when approaching the special point The essence of the Lipschitz geometry of singularities is captured by the problem of building classifications of the germs up to local bi Lipschitz homeomorphism The Lipschitz geometry of a singular space germ is then its equivalence class in this category The book is aimed at graduate students and researchers from other fields of geometry who are interested in studying the multiple open questions offered by this new subject *Fast Forward* Melanne Verveer, Kim K. Azzarelli, 2015-10-06 This book based on interviews with the world's most inspiring women shows every woman how she can empower herself and her community Madeleine Albright Important conversations about leaning in work life balance and empowering females around the world have energized a generation of women Fast Forward by two leaders whose experience spans corporate America public service and global diplomacy takes the next step Through interviews with a network of more than seventy trailblazing women Fast Forward shows women how to accelerate their growing economic power and combine it with purpose to find both success and meaning in their lives Companies countries and organizations the world over are waking up to today's new reality Women control the lion's share of purchasing power and are increasingly essential to competitiveness The age of women's transformative economic influence has finally arrived and women are using their power for purpose redefining what power and success mean in the process Through clear practical advice and personal stories of women around the world including Hillary Clinton Geena Davis Christine Lagarde and Diane von Furstenberg Fast Forward shows every woman how to know her power find her purpose and connect with others to achieve her life goals **Quantum Theory and Symmetries with Lie Theory and Its Applications in Physics Volume 1** Vladimir Dobrev, 2018-11-28 This book is the first volume of proceedings from the joint conference X International Symposium Quantum Theory and Symmetries QTS X and XII International Workshop Lie Theory and Its Applications in Physics LT XII held on 19-25 June 2017 in Varna Bulgaria The QTS series was founded on the core principle that symmetries underlie all descriptions of quantum systems It has since evolved into a symposium at the forefront of theoretical and mathematical physics The LT series covers

the whole field of Lie theory in its widest sense together with its applications in many areas of physics As an interface between mathematics and physics the workshop serves as a meeting place for mathematicians and theoretical and mathematical physicists In dividing the material between the two volumes the Editor has sought to select papers that are more oriented toward mathematics for the first volume and those focusing more on physics for the second However this division is relative since many papers are equally suitable for either volume The topics addressed in this volume represent the latest trends in the fields covered by the joint conferences representation theory integrability entanglement quantum groups number theory conformal geometry quantum affine superalgebras noncommutative geometry Further they present various mathematical results on minuscule modules symmetry breaking operators Kashiwara crystals meta conformal invariance the superintegrable Zernike system

Hecke Operators and Systems of Eigenvalues on Siegel Cusp Forms
 Kazuyuki Hatada, 2021-06-18 [View the abstract](#)

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

The Role of the History of Mathematics in the Teaching/Learning Process Sixto Romero Sanchez, Ana Serradó Bayés, Peter Appelbaum, Gilles Aldon, 2023-06-15 This volume presents multiple perspectives on the uses of the history of mathematics for teaching and learning including the value of historical topics in challenging mathematics tasks for provoking teachers reflection on the nature of mathematics curriculum development questions that mirror earlier pedagogical choices in the history of mathematics education and the history of technological innovations in the teaching and learning of mathematics An ethnomathematical perspective on the history of mathematics challenges readers to appreciate the role of mathematics in perpetuating consequences of colonialism

Histories of the textbook and its uses offer interesting insights into how technology has changed the fundamental role of curriculum materials and classroom pedagogies History is explored as a source for the training of teachers for good puzzles and problems and for a broad understanding of mathematics education policy Third in a series of sourcebooks from the International Commission for the Study and Improvement of Mathematics Teaching this collection of cutting edge research stories from the field and policy implications is a contemporary and global perspective on current possibilities for the history of mathematics for mathematics education This latest volume integrates discussions regarding history of mathematics history of mathematics education and history of technology for education that have taken place at the Commission s recent annual conferences

Foundations of Theoretical Approaches in Systems Biology Alberto Marin-Sanguino,Julio Vera,Rui Alves,2019-01-11 If biology in the 20th century was characterized by an explosion of new technologies and experimental methods that of the 21st has seen an equally exuberant proliferation of mathematical and computational methods that attempt to systematize and explain the abundance of available data As we live through the consolidation of a new paradigm where experimental data goes hand in hand with computational analysis we contemplate the challenge of fusing these two aspects of the new biology into a consistent theoretical framework Whether systems biology will survive as a field or be washed away by the tides of future fads will ultimately depend on its success to achieve this type of synthesis The famous quote attributed to Kurt Lewin comes to mind there is nothing more practical than a good theory This book presents a wide assortment of articles on systems biology in an attempt to capture the variety of current methods in systems biology and show how they can help to find answers to the challenges of modern biology

Social Inequality Heather M. Fitz Gibbon,Anne M. Nurse,Charles E. Hurst,2019-07-02 Like past editions this tenth edition of Social Inequality Forms Causes and Consequences is a user friendly introduction to the study of social inequality This book conveys the pervasiveness and extensiveness of social inequality in the United States within a comparative context to show how inequality occurs how it affects all of us and what is being done about it This edition benefits from a variety of changes that have significantly strengthened the text The authors pay increased attention to disability intersectionality immigration religion and place This edition also spotlights crime and the criminal justice system as well as health and the environment The tenth edition includes a new chapter on policy alternatives and venues for social change

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