



**GAUTENG PROVINCE**  
EDUCATION  
REPUBLIC OF SOUTH AFRICA

**GAUTENG DEPARTMENT OF EDUCATION**  
**GRADE 8**  
**NOVEMBER EXAM 2019**  
**MEMORANDUM**

<b>SUBJECT</b>	<b>:</b>	<b>MATHEMATICS</b>
<b>TASK</b>	<b>:</b>	<b>COMMON EXAM</b>
<b>TIME</b>	<b>:</b>	<b>2 HOURS</b>
<b>MARKS</b>	<b>:</b>	<b>100</b>

# Mathematics P2014 November Memo

**Pat Harrigan, Matthew G.  
Kirschenbaum**



## **Mathematics P2014 November Memo:**

**Symmetry in Geometry and Analysis, Volume 1** Michael Pevzner, Hideko Sekiguchi, 2025-02-09 Symmetry in Geometry and Analysis is a Festschrift honoring Toshiyuki Kobayashi. The three volumes feature 35 selected contributions from invited speakers of twin conferences held in June 2022 in Reims, France and in September 2022 in Tokyo, Japan. These contributions highlight the profound impact of Prof. Kobayashi's pioneering ideas, groundbreaking discoveries, and significant achievements in the development of analytic representation theory, noncommutative harmonic analysis, and the geometry of discontinuous groups beyond the Riemannian context, among other areas over the past four decades. The first volume of the Festschrift includes a survey article on Kobayashi's innovative contributions to Mathematics, emphasizing their influence and introducing new perspectives across various fields. Original articles contained in Volume 1 focus on differential geometry with symmetries, as well as algebraic and geometric aspects of representation theory of reductive Lie groups and related topics. Contributions are by Velleda Baldoni, Dan Barbasch, Leticia Barchini, Sigiswald Barbier, Yves Benoist, Sam Claerebout, Michael Eastwood, Wee Teck Gan, William M. Goldman, Roger Howe, Kazuki Kannaka, Toshihisa Kubo, Hung Yean Loke, Jia Jun Ma, Reiko Miyaoka, Kento Ogawa, Takayuki Okuda, Yoshiki Oshima, Paul Mile Paradan, Annegret Paul, Michael Pevzner, Yiannis Sakellaridis, Atsumi Sasaki, Gordan Savin, Hideko Sekiguchi, Binyong Sun, Yuichiro Tanaka, Koichi Tojo, Peter Trapa, Michèle Vergne, Joseph A. Wolf, Kayue Daniel Wong, and Chen Bo Zhu. The Mathematical Work of Toshiyuki Kobayashi is available open access under a Creative Commons Attribution 4.0 International License via [link.springer.com](https://link.springer.com).

**Practical Handbook of Multi-Tiered Systems of Support** Rachel Brown-Chidsey, Rebekah Bickford, 2015-12-14 This book has been replaced by Practical Handbook of Multi-Tiered Systems of Support, Second Edition, ISBN 978-1-4625-5901-5.

*Triennial Review of the National Nanotechnology Initiative* National Research Council, Division on Engineering and Physical Sciences, National Materials and Manufacturing Board, Committee on Triennial Review of the National Nanotechnology Initiative: Phase II, 2014-01-20. The National Nanotechnology Initiative (NNI) is a multiagency multidisciplinary federal initiative comprising a collection of research programs and other activities funded by the participating agencies and linked by the vision of a future in which the ability to understand and control matter at the nanoscale leads to a revolution in technology and industry that benefits society. As first stated in the 2004 NNI strategic plan, the participating agencies intend to make progress in realizing that vision by working toward four goals. Planning, coordination, and management of the NNI are carried out by the interagency Nanoscale Science, Engineering, and Technology (NSET) Subcommittee of the National Science and Technology Council (NSTC) Committee on Technology (CoT) with support from the National Nanotechnology Coordination Office (NNCO). The Triennial Review of the National Nanotechnology Initiative is the latest National Research Council review of the NNI, an assessment called for by the 21st Century Nanotechnology Research and Development Act of 2003. The overall objective of the review is to make recommendations to the NSET Subcommittee and the NNCO that will improve the NNI's value for

basic and applied research and for development of applications in nanotechnology that will provide economic societal and national security benefits to the United States In its assessment the committee found it important to understand in some detail and to describe in its report the NNI s structure and organization how the NNI fits within the larger federal research enterprise as well as how it can and should be organized for management purposes and the initiative s various stakeholders and their roles with respect to research Because technology transfer one of the four NNI goals is dependent on management and coordination the committee chose to address the topic of technology transfer last following its discussion of definitions of success and metrics for assessing progress toward achieving the four goals and management and coordination Addressing its tasks in this order would the committee hoped better reflect the logic of its approach to review of the NNI Triennial Review of the National Nanotechnology Initiative also provides concluding remarks in the last chapter *South African national bibliography* ,1999 Classified list with author and title index **Zones of Control** Pat Harrigan,Matthew G. Kirschenbaum,2016-04-15

Examinations of wargaming for entertainment education and military planning in terms of design critical analysis and historical contexts Games with military themes date back to antiquity and yet they are curiously neglected in much of the academic and trade literature on games and game history This volume fills that gap providing a diverse set of perspectives on wargaming s past present and future In *Zones of Control* contributors consider wargames played for entertainment education and military planning in terms of design critical analysis and historical contexts They consider both digital and especially tabletop games most of which cover specific historical conflicts or are grounded in recognizable real world geopolitics Game designers and players will find the historical and critical contexts often missing from design and hobby literature military analysts will find connections to game design and the humanities and academics will find documentation and critique of a sophisticated body of cultural work in which the complexity of military conflict is represented in ludic systems and procedures Each section begins with a long anchoring chapter by an established authority which is followed by a variety of shorter pieces both analytic and anecdotal Topics include the history of playing at war operations research and systems design wargaming and military history wargaming s ethics and politics gaming irregular and non kinetic warfare and wargames as artistic practice Contributors Jeremy Antley Richard Barbrook Elizabeth M Bartels Ed Beach Larry Bond Larry Brom Lee Brimmicombe Wood Rex Brynen Matthew B Caffrey Jr Luke Caldwell Catherine Cavagnaro Robert M Citino Laurent Closier Stephen V Cole Brian Conley Greg Costikyan Patrick Crogan John Curry James F Dunnigan Robert J Elder Lisa Faden Mary Flanagan John A Foley Alexander R Galloway Sharon Ghamari Tabrizi Don R Gilman A Scott Glancy Troy Goodfellow Jack Greene Mark Herman Kacper Kwiatkowski Tim Lenoir David Levinthal Alexander H Levis Henry Lowood Elizabeth Losh Esther MacCallum Stewart Rob MacDougall Mark Mahaffey Bill McDonald Brien J Miller Joseph Miranda Soraya Murray Tetsuya Nakamura Michael Peck Peter P Perla Jon Peterson John Prados Ted S Raicer Volko Ruhnke Philip Sabin Thomas C Schelling Marcus Schulzke Miguel Sicart Rachel Simmons Ian Sturrock Jenny

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