

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	<p>R is the midpoint of diagonal AH (Diags of a parm) Let the coordinates of A be $(x; y)$.</p> $\frac{-1 + x}{2} = \frac{7}{2}$ $x = 8$ $\frac{4 + y}{2} = \frac{7}{2}$ $y = 3$ <p>$\therefore A(8; 3)$</p>	$\checkmark \frac{-1+x}{2} = \frac{7}{2}$ $\checkmark 8$ $\checkmark \frac{4+y}{2} = \frac{7}{2}$ $\checkmark 3$
1.5	$m_{AT} = \frac{1}{2} \text{ (parallel lines)}$ $y = \frac{1}{2}x + c$ <p>Sub $T(4; 1)$</p>	 ✓ Sub $T(4; 1)$ ✓ $c = -1$

Maths Paper1 Prelims 2014 Memorandum

**John W. Morgan,Dusa
McDuff,Mohammad Tehrani,Kenji
Fukaya,Dominic Joyce**



Maths Paper1 Prelims 2014 Memorandum:

Virtual Fundamental Cycles in Symplectic Topology John W. Morgan, Dusa McDuff, Mohammad Tehrani, Kenji Fukaya, Dominic Joyce, 2019-04-12 The method of using the moduli space of pseudo holomorphic curves on a symplectic manifold was introduced by Mikhail Gromov in 1985 From the appearance of Gromov's original paper until today this approach has been the most important tool in global symplectic geometry To produce numerical invariants of these manifolds using this method requires constructing a fundamental cycle associated with moduli spaces This volume brings together three approaches to constructing the virtual fundamental cycle for the moduli space of pseudo holomorphic curves All approaches are based on the idea of local Kuranishi charts for the moduli space Workers in the field will get a comprehensive understanding of the details of these constructions and the assumptions under which they can be made These techniques and results will be essential in further applications of this approach to producing invariants of symplectic manifolds

Handbook of Test Development Suzanne Lane, Mark R. Raymond, Thomas M. Haladyna, 2015-10-08 The second edition of the Handbook of Test Development provides graduate students and professionals with an up to date research oriented guide to the latest developments in the field Including thirty two chapters by well known scholars and practitioners it is divided into five sections covering the foundations of test development content definition item development test design and form assembly and the processes of test administration documentation and evaluation Keenly aware of developments in the field since the publication of the first edition including changes in technology the evolution of psychometric theory and the increased demands for effective tests via educational policy the editors of this edition include new chapters on assessing noncognitive skills measuring growth and learning progressions automated item generation and test assembly and computerized scoring of constructed responses The volume also includes expanded coverage of performance testing validity fairness and numerous other topics Edited by Suzanne Lane Mark R Raymond and Thomas M Haladyna The Handbook of Test Development 2nd edition is based on the revised Standards for Educational and Psychological Testing and is appropriate for graduate courses and seminars that deal with test development and usage professional testing services and credentialing agencies state and local boards of education and academic libraries serving these groups **The DARPA Model for**

Transformative Technologies: Perspectives on the U.S. Defense Advanced Research Projects Agency William Boone Bonvillian, Richard Van Atta, Patrick Windham, 2020-01-09 The authors have done a masterful job of charting the important story of DARPA one of the key catalysts of technological innovation in US recent history By plotting the development achievements and structure of the leading world agency of this kind this book stimulates new thinking in the field of technological innovation with bearing on how to respond to climate change pandemics cyber security and other global problems of our time The DARPA Model provides a useful guide for governmental agency and policy leaders and for anybody interested in the role of governments in technological innovation Dr Kent Hughes Woodrow Wilson International Center for

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Catalogue of the Library of the Graduate School of Design, Harvard University Harvard University. Graduate School of Design. Library, 1968

Captured Eagles Frederick A. Johnsen, 2014-10-20 The growth in size, lethality, and technology of the German Luftwaffe was of concern to some defense planners in the United States before American entry into the war. Learning about the Luftwaffe became a significant effort once the conflict broke out in Europe. From defectors with German aircraft to battlefield trophies and combat crew reports, the race to understand German aero technology took on sometimes heroic proportions. After the war, German technology infused American aerospace developments in many ways. German ribbon parachutes were evaluated for high-speed bailouts; sweptwing leading edge slat technology benefited the F-86 Sabre; overall comprehension of sweptwing benefits to fast jet aircraft was validated; pulse jet V-1s and supersonic V-2 rockets boosted American drone, weapon, ballistic missile, and space exploration efforts. In this volume, Frederick A. Johnsen traces that path of discovery.

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A Directory of Computer Software Applications, 1979

Paperbound Books in Print, 1984

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