

Subject – Math(Higher Level)  
Topic – Calculus  
Year – Nov 2011 – Nov 2019

Question 1

to find the points of intersection of the two curves

$$-x^2 + 2 = x^2 - x^2 - bx + 2$$

*M1*

$$x^2 - bx = x(x^2 - b) = 0$$

$$\Rightarrow x = 0 ; x = \pm\sqrt{b}$$

*A1A1*

$$A_1 = \int_{-\sqrt{b}}^{\sqrt{b}} [(x^2 - x^2 - bx + 2) - (-x^2 + 2)] dx \left( = \int_{-\sqrt{b}}^{\sqrt{b}} (x^2 - bx) dx \right)$$

*M1*

$$= \left[ \frac{x^3}{3} - \frac{bx^2}{2} \right]_{-\sqrt{b}}^{\sqrt{b}}$$

$$= - \left[ \frac{(-\sqrt{b})^3}{3} - \frac{b(-\sqrt{b})^2}{2} \right] = - \left[ -\frac{b^{\frac{3}{2}}}{3} + \frac{b^{\frac{3}{2}}}{2} \right] = \frac{b^{\frac{3}{2}}}{6}$$

*A1*

$$A_2 = \int_0^{\sqrt{b}} [(-x^2 + 2) - (x^2 - x^2 - bx + 2)] dx$$

*M1*

$$= \int_0^{\sqrt{b}} (-x^2 + bx) dx$$

$$= \left[ -\frac{x^3}{3} + \frac{bx^2}{2} \right]_0^{\sqrt{b}} = \frac{b^{\frac{3}{2}}}{6}$$

*A1*

therefore  $A_1 = A_2 = \frac{b^{\frac{3}{2}}}{6}$

*AG*

[7 marks]

# Mathematics Hl Paper 3 2011

**Douglas H. Clements, Julie Sarama**



## **Mathematics HL Paper 3 2011:**

**Handbook of International Research in Mathematics Education** Lyn D. English, David Kirshner, 2015-07-30 This third edition of the Handbook of International Research in Mathematics Education provides a comprehensive overview of the most recent theoretical and practical developments in the field of mathematics education Authored by an array of internationally recognized scholars and edited by Lyn English and David Kirshner this collection brings together overviews and advances in mathematics education research spanning established and emerging topics diverse workplace and school environments and globally representative research priorities New perspectives are presented on a range of critical topics including embodied learning the theory practice divide new developments in the early years educating future mathematics education professors problem solving in a 21st century curriculum culture and mathematics learning complex systems critical analysis of design based research multimodal technologies and e textbooks Comprised of 12 revised and 17 new chapters this edition extends the Handbook's original themes for international research in mathematics education and remains in the process a definitive resource for the field **HC 593 - Post-study Work Schemes** Great Britain.

Parliament. House of Commons. Scottish Affairs Committee, 2016 The Scottish Affairs Committee has published a report calling for reform to visa rules for non EU students studying in Scotland who wish to remain in the UK to work after their studies In their report the Committee have found that current rules for students studying here to remain in Scotland are too restrictive and are preventing businesses from finding skilled workers Scotland faces different demographic challenges to the rest of the UK with a much lower birth rate and significant skills gaps in the workforce Sectors such as health energy and finance face particular problems in recruiting skilled graduate workers The Committee found that the closure of the Tier 1 Post Study Work visa in 2012 has harmed Scotland by making Scotland less competitive in the global education market with other nations able to offer prospective students greater employment opportunities after graduation Closing this visa has also prevented Scotland from making use of a pool of skilled workers educated in Scotland who could help mitigate Scotland's demographic challenges Since the Post Study Work visa was closed in 2012 the number of non EU students remaining in the UK after graduating has fallen by 80% *Digital Games and Mathematics Learning* Tom Lowrie, Robyn Jorgensen

(Zevenbergen), 2015-10-05 Digital games offer enormous potential for learning and engagement in mathematics ideas and processes This volume offers multidisciplinary perspectives of educators cognitive scientists psychologists and sociologists on how digital games influence the social activities and mathematical ideas of learners gamers Contributing authors identify opportunities for broadening current understandings of how mathematical ideas are fostered and embedded within digital game environments In particular the volume advocates for new and different ways of thinking about mathematics in our digital age proposing that these mathematical ideas and numeracy practices are distinct from new literacies or multiliteracies The authors acknowledge that the promise of digital games has not always been realised fulfilled There is

emerging and considerable evidence to suggest that traditional discipline boundaries restrict opportunities for mathematical learning Throughout the book what constitutes mathematics learnings and pedagogy is contested Multidisciplinary viewpoints are used to describe and understand the potential of digital games for learning mathematics and identify current tensions within the field Mathematics learning is defined as being about problem solving engagement in mathematical ideas and processes and social engagement The artefact which is the game shapes the ways in which the gamers engage with the social activity of gaming In parallel the book as a textual artefact will be supported by Springer's online platform allowing for video and digital communication including links to relevant websites to be used as supplementary material and establish a dynamic communication space

Math Education for America? Mark Wolfmeyer, 2013-12-04 Math Education for America analyzes math education policy through the social network of individuals and private and public organizations that influence it in the United States The effort to standardize a national mathematics curriculum for public schools in the U S culminated in 2010 when over 40 states adopted the Common Core State Standards for Mathematics Rather than looking at the text of specific policy documents this book complements existing critical reviews of the national math education curriculum by employing a unique social network analysis Breaking new ground in detailing and theorizing the politics of math education Wolfmeyer argues that the private interests of this network are closely tied to a web of interrelated developments human capital education policy debates over traditional and reform pedagogy the assumed content knowledge deficit of math teachers and the proliferation of profit driven educational businesses By establishing the interconnectedness of these interests with the national math education curriculum he shows how the purported goals of math education reform are aligned with the prevailing political agendas of this social network rather than the national interest

**How Chinese Acquire and Improve Mathematics Knowledge for Teaching** Yeping Li, Rongjin Huang, 2018-05-16 While the importance of knowledge for effective instruction has long been acknowledged and the concept and structure of mathematics knowledge for teaching are far from being new the process of such knowledge acquisition and improvement remains underexplored empirically and theoretically The difficulty can well associate with the fact that different education systems embody different values for what mathematics teachers need to learn and how they can be assisted to develop their knowledge To improve this situation with needed consideration about a system context and policies How Chinese Acquire and Improve Mathematics Knowledge for Teaching takes a unique approach to present new research that views knowledge acquisition and improvement as part of teachers life long professional learning process in China The book includes such chapters that can help readers to make possible connections of teachers mathematical knowledge for teaching in China with educational policies and program structures for mathematics teacher education in that system context How Chinese Acquire and Improve Mathematics Knowledge for Teaching brings invaluable inspirations and insights to mathematics educators and teacher educators who wish to help teachers improve their knowledge and to researchers who study this important topic beyond a

static knowledge conception      Transforming the Future of Learning with Educational Research Askill-Williams, Helen, 2015-01-31 The field of education is a vital component of today's society enriching and facilitating the attainment of new knowledge Progress continues to be achieved in this area as new methods are envisioned that increase education's value Transforming the Future of Learning with Educational Research brings together diverse perspectives that underscore the importance of research practices toward the enrichment of teaching Highlighting themes of learning diversity education communities and student wellbeing this book is an essential reference source for teacher educators researchers teaching practitioners and professionals interested in the value of research within the field of education      *Mathematical Modelling: From Theory To Practice* Ngan Hoe Lee, Kit Ee Dawn Ng, 2015-01-19 This book documents the journey undertaken by educators from the Mathematics and Mathematics Education MME Academic Group in the National Institute of Education NIE and Singapore schools during a Mathematical Modelling Outreach MMO event in June 2010 under the guidance of renowned experts in the field of mathematical modelling The main goal of MMO was to reach out to Singapore primary and secondary schools and introduce the potentials of mathematical modelling as a platform for eliciting mathematical thinking communication and reasoning among students This book contributes to the expanding literature on mathematical modelling by offering voices from the Singaporean context It suggests how theoretical perspectives on mathematical modelling can be transformed into actual practice in schools all within the existing infrastructure of the current Singapore mathematics curriculum More importantly the book provides documentary evidence on how plans put in place through MMO in 2010 have since been realised The publication of this book is hence timely at this juncture Not only does the book record how MMO was among the first pebbles launched into the pond it also serves as a bridge over which educators can stand upon to view how the ripple effect had developed from the initial MMO pebble and the directions it may continue to extend Perhaps in the process other ripples in the teaching learning and research of mathematical modelling can be created      **Learning and Teaching Early Math** Douglas H. Clements, Julie Sarama, 2014-05-23 In this important book for pre and in service teachers early math experts Douglas Clements and Julie Sarama show how learning trajectories help diagnose a child's level of mathematical understanding and provide guidance for teaching By focusing on the inherent delight and curiosity behind young children's mathematical reasoning learning trajectories ultimately make teaching more joyous They help teachers understand the varying levels of knowledge exhibited by individual students which in turn allows them to better meet the learning needs of all children Using straightforward no nonsense language this book summarizes the current research about how children learn mathematics and how to build on what children already know to realize more effective teaching This second edition of Learning and Teaching Early Math remains the definitive research based resource to help teachers understand the learning trajectories of early mathematics and become quintessential professionals Updates to the new edition include Explicit connections between Learning Trajectories and the new Common Core State Standards New

coverage of patterns and patterning Incorporation of hundreds of recent research studies      **Mathematics Education in Singapore** Tin Lam Toh, Berinderjeet Kaur, Eng Guan Tay, 2019-02-07 This book provides a one stop resource for mathematics educators policy makers and all who are interested in learning more about the why what and how of mathematics education in Singapore The content is organized according to three significant and closely interrelated components the Singapore mathematics curriculum mathematics teacher education and professional development and learners in Singapore mathematics classrooms Written by leading researchers with an intimate understanding of Singapore mathematics education this up to date book reports the latest trends in Singapore mathematics classrooms including mathematical modelling and problem solving in the real world context      **Combinatorial Optimization and Applications** Guohui Lin, 2012-07-26 This book constitutes the refereed proceedings of the 6th International Conference COCOA 2012 held in Banff Alberta Canada in August 2012 The 33 revised papers including one invited talk and one keynote talk were carefully reviewed and selected from 57 submissions The papers are focused to theoretical results and also on recent works on experimental and applied research of general algorithmic interest

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