

## IGCSE ADDITIONAL MATHEMATICS

### 1. Functions

POI: Point of intersection

- One-one: each  $x$  value maps to 1 distinct  $y$  value (eg.  $f(x) = 3x - 1$ )
  - Line cuts through the graph once
- Many-one: for 2 input values, there is 1 output value (eg.  $f(x) = x^2 - 2x + 3$ )
  - Line cuts through the graph twice
- One-many: For one input value there are 2 output values (eg.  $f(x) = \pm\sqrt{x}$ )
- Domain:  $x$  value
  - Eg.  $f(x) = 2x - 1$   $-1 \leq x \leq 3$ 
    - Domain is  $-1 \leq x \leq 3$
- Range:  $y$  value
  - Range is  $-3 \leq x \leq 5$ 
    - Sub  $x = -1$  into  $f(x) = -3$
    - Sub  $x = 3$  into  $f(x) = 5$

Note:  $f(x)$  alternate notation is  $f : x \rightarrow$

- Composite functions
  - $f(g(x))$  or  $f \circ g(x)$ 
    - Sub all instances of  $x$  in  $f(x)$  into  $g(x)$
  - $f^2(x)$ 
    - $ff(x)$

Eg.  $f(x) = 2x - 1$ ,  $g(x) = x^2 + 5$

a. Find  $g \circ f(x)$

$$= g(2x - 1)$$

$$= (2x - 1)^2 + 5$$

$$= 4x^2 - 4x + 6$$

b. Find  $g \circ f(2)$

$$= 4(2)^2 - 4(2) + 6$$

$$= 14$$

c. Find  $f^2(x)$

$$= f(2x - 1)$$

$$= 2(2x - 1) - 1$$

$$= 4x - 3$$

- Modulus functions
  - Mod of any number is always positive
  - $|x| = x$ ,  $|-x| = x$
  - Equations
    - $|ax + b| = k$ 
      - Solve  $ax + b = k$  &  $ax + b = -k$
    - $|ax + b| = cx + d$ 
      - Solve  $ax + b = cx + d$  &  $ax + b = -(cx + d)$
  - Graph
    - Draw the graph of  $y = |x|$
    - Any parts of the graph below the  $x$  axis are reflected in the  $x$ -axis



- Inverse functions
  - Inverse of  $f(x)$  is  $f^{-1}(x)$ 
    - Only exists if  $f(x)$  is one-one mapping
  - Domain of  $f^{-1}$  = range of  $f(x)$
  - Range of  $f^{-1}(x)$  = domain of  $f(x)$
  - Finding inverse
    - Write function as  $y =$
    - Interchange the  $x$  &  $y$  variables
    - Rearrange to make  $y$  the subject
  - Graph
    - $f(-x)$ : reflection in the  $y$ -axis
    - $-f(x)$ : reflection in the  $x$ -axis
    - $f(x) + a$ : translation of  $a$  units parallel to  $y$ -axis
    - $f(x + a)$ : translation of  $-a$  units parallel to  $x$ -axis

Eg.  $f(x) = 2x + 3$

a. Find an expression for  $f^{-1}(x)$

$$y = 2x + 3$$

$$x = 2y + 3$$

$$2y = x - 3$$

$$y = \frac{x-3}{2}$$

$$\text{Thus, } f^{-1}(x) = \frac{x-3}{2}$$

### 2. Quadratic functions

- $a > 0$  (u shaped) = minimum point
- $a < 0$  (n shaped) = maximum point
- Find vertex using completing the square
  - $(x - 1)^2 + 2$  → vertex point (1, 2)
- Find  $y$  intercept: sub  $x = 0$
- Find  $x$  intercept: factorise/quadratic formula

# Additional Mathematics 2013 Exam Paper Cambridge

**Vincanne Adams**



## **Additional Mathematics 2013 Exam Paper Cambridge:**

**Cambridge IGCSE® and O Level Additional Mathematics Coursebook** Sue Pemberton, 2018-02-22 These resources have been created for the Cambridge IGCSE and O Level Additional Mathematics syllabuses 0606 4037 for first examination from 2020 This coursebook gives clear explanations of new mathematical concepts followed by exercises This allows students to practise the skills required and gain the confidence to apply them Classroom discussion exercises and extra challenge questions have been designed to deepen students understanding and stimulate interest in Mathematics Answers to coursebook questions are in the back of the book **O-level Additional Mathematics Challenging Drill Questions**

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**Handbook of Research on the Role of Human Factors in IT Project Management** Misra, Sanjay,Adewumi, Adewole,2019-09-27 The role humans play in the field of information technology continues to hold relevance even with the industry s rapid growth People contribute heavily to the physical cognitive and organizational domain of computing yet there is a lack of exploration into this phenomenon Humanoid aspects of technology require extensive research in order to avoid marginalization and insufficient data The Handbook of Research on the Role of Human Factors in IT Project Management is a collection of innovative research on the methods and applications of the task of human characteristics in the design and development of new technology While highlighting topics including digitalization risk management and task analysis this book is ideally designed for IT professionals managers support executives project managers managing directors academicians researchers and students seeking current research on the dynamics of human influence in technological projects

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*Computational Aspects and Applications in Large-Scale Networks* Valery A. Kalyagin,Panos M. Pardalos,Oleg Prokopyev,Irina Utkina,2018-08-24 Contributions in this volume focus on computationally efficient algorithms and rigorous mathematical theories for analyzing large scale networks Researchers and students in mathematics economics statistics computer science and engineering will find this collection a valuable resource filled with the latest research in network analysis Computational aspects and applications of large scale networks in market models neural networks social networks power transmission grids maximum clique problem telecommunication networks and

complexity graphs are included with new tools for efficient network analysis of large scale networks This proceeding is a result of the 7th International Conference in Network Analysis held at the Higher School of Economics Nizhny Novgorod in June 2017 The conference brought together scientists engineers and researchers from academia industry and government

Writing History 7-11 Hilary Cooper, 2014-06-05 Writing History 7 11 supports students and primary teachers helping them to explore ways in which activities involving the talk that underpins historical enquiry can be developed into reading and exciting extended reflective writing The step that teachers and pupils take from talk for learning to talk for writing is a vital one In this book the authors argue that all aspects of historical enquiry leading to writing involve discussion and dialogue which permeate every aspect of doing history From this perspective they set out a theoretical framework for understanding the role of talk and reading in developing pupils critical thinking and confident reflective writing then demonstrate through a series of case studies in which teachers university lecturers and pupils work together how the theory is put into practice in the classroom Themes include How to support children in writing in a variety of interesting genres How to make links between the National Curriculum 2013 for History and for English How to plan for breadth and depth studies in the new National Curriculum How activities in History 5 11 can be developed into exciting extended writing The second half of the book draws upon case studies from a number of real primary classrooms with children of different ages Each case study shows how teaching was planned to develop children s confidence and enjoyment in discussion and to scaffold reasoned written explanation and argument Topics presented are all relevant to the new curriculum framework and include talking and reading about Time change and significance over 6000 years writing a television script Celtic Britain and the Roman Army writing a travel brochure about Celtic Britain The destruction of Roman towns writing a Saxon poem An archaeological investigation of a body in a Danish peat bog writing a newspaper report Did any countries benefit from WW11 writing an argued viewpoint The expansion westwards of European settlers writing a flap book exploring different perspectives This indispensable book provides not only sources for pupils to use in their writing but also models and exemplars of different styles and voices to draw upon

*The Question of Linguistic Idealism* , 2025-02-24 The chapters in this volume address the question to what extent the doctrine of linguistic idealism is coherent and plausible Linguistic idealism as defined here holds that both the existence and the very general structure of the world are in some sense dependent on the existence and the structure of language The interest of the thesis is that since human language is an evolved empirical phenomenon it would be surprising and significant if the world which existed long before human beings came into being and is in many respects quite obviously independent of them were somehow beholden to the fact that human beings can talk about it That nevertheless is the claim Much of the discussion of linguistic idealism revolves around making the definition of it both precise and interesting whether for purposes of attack or defence The Question of Linguistic Idealism opens with an introduction that presents a general argument for linguistic idealism and examines the way in which that

position figures in the writings of Ludwig Wittgenstein and Elizabeth Anscombe The authors in this collection cover a wide range of possible approaches to linguistic idealism Some support the position in one version or another others are hostile All the contributions are both historically aware and engaged with systematic considerations but in some the emphasis is placed on historical aspects of the problem here the focus is particularly on the writings of Kant and Wittgenstein whereas others adopt a more systematic approach Each philosopher addresses their chosen aspect of the general topic in broadly speaking metaphysical terms but the bearing of modern linguistic theory on the thesis of linguistic idealism as well as its connections with mathematical results and practice play a role in some of the contributions as well **Get Out Now** Mary Rice

Hasson,Theresa Farnan,2018-08-14 Should we stay or should we go Millions of parents with children in public schools can't believe they're asking this question But they are And you should be asking it too Almost overnight America's public schools have become morally toxic And they are especially poisonous for the hearts and minds of children from religious families of every faith ordinary families who value traditional morality and plain old common sense Parents' first duty is to their children to their intellect their character their souls The facts on the ground point to one conclusion get out now **Breaking In** Ann Wolverton,Lisa Nagaoka,Mimi Wolverton,2023-07-03 Why is it that while women in the United States have generally made great strides in establishing parity with their male counterparts in educational attainment they remain substantially underrepresented in the fields of science technology engineering and mathematics STEM Why is it that in proportion to the PhDs they obtain in STEM they attain fewer administrative and managerial positions in academia and industry than their numbers warrant and moreover are more likely to leave the field once started in their careers In the culture and context of women's advancement and satisfaction with careers in STEM the data show that many challenges and obstacles remain By showcasing the stories of eight women scientists who have achieved successful careers in the academy industry and government **Breaking In** offers vivid insights into the challenges and barriers that women face in entering STEM while also describing these women's motivations the choices they made along their paths and the intellectual satisfactions and excitement of scientific discovery they derive from their work **Breaking In** underscores issues aspiring women scientists will encounter on their journeys and what they can do to forestall potential obstacles advocate for change and fulfill their ambitions And it speaks to the question What can be done to encourage more women to specialize in science mathematics and engineering In doctoral granting institutions where women must start if they hope to earn advanced degrees **Breaking In** can serve both as a student text and as guide for department chairs and deans who are concerned about organizational climate and culture and their impact on retention in STEM fields At a broader level this book offers advice and inspiration to women contemplating entering STEM fields as well to the teachers researchers and administrators responsible for nurturing these women growing enrollments in their disciplines and developing creative and intellectual capital that the nation needs to compete in the global marketplace **Peterson's Grad Programs in Physical Sciences, Math, Ag Sciences, Envir &**

**Natural Res 20154 (Grad 4)** Peterson's,2014-10-21 Graduate Programs in the Physical Sciences Mathematics Agricultural Sciences the Environment Natural Resources 2015 contains more than 3 000 graduate programs in the relevant disciplines including agriculture and food sciences astronomy and astrophysics chemistry physics mathematics environmental sciences and management natural resources marine sciences and more Informative data profiles for more than 3 000 graduate programs at nearly 600 institutions are included complete with facts and figures on accreditation degree requirements application deadlines and contact information financial support faculty and student body profiles Two page in depth descriptions written by featured institutions offer complete details on specific graduate programs schools or departments as well as information on faculty research Comprehensive directories list programs in this volume as well as others in the graduate series

**Technólogos in Being** Wolfgang Ernst,2021-05-06 Wolfgang Ernst s new work Technol gos in Being in its explicit media scientific approach aligns with the politics of the thinking media series to publish innovative works that advance media studies towards the new sciences Ernst s invites readers to re adjust their ideas of Media Studies the conviction that an extended understanding of medium needs to include a concept of materiality that focuses on non human agencies as well The book grounds media analysis radically in the technological apparatuses relays transistors hard and software to precisely locate the scenes operations and frictions where reasoning logos and informable matter interfere

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**Sapientia Astrologica: Astrology, Magic and Natural Knowledge, ca.**

**1250-1800** H Darrel Rutkin,2019-04-24 This book explores the changing perspective of astrology from the Middle Ages to the Early Modern Era It introduces a framework for understanding both its former centrality and its later removal from legitimate knowledge and practice The discussion reconstructs the changing roles of astrology in Western science theology and culture from 1250 to 1500 The author considers both the how and the why He analyzes and integrates a broad range of sources This analysis shows that the history of astrology in particular the story of the protracted criticism and ultimate removal of astrology from the realm of legitimate knowledge and practice is crucial for fully understanding the transition from premodern Aristotelian Ptolemaic natural philosophy to modern Newtonian science This removal the author argues was

neither obvious nor unproblematic Astrology was not some sort of magical nebulous hodge podge of beliefs Rather astrology emerged in the 13th century as a richly mathematical system that served to integrate astronomy and natural philosophy precisely the aim of the New Science of the 17th century As such it becomes a fundamentally important historical question to determine why this promising astrological synthesis was rejected in favor of a rather different mathematical natural philosophy and one with a very different causal structure than Aristotle's

*Other People's Children: What happens to those in the bottom 50% academically?* Barnaby Lenon, 2018-04-30 In 2017 Barnaby Lenon previously the head master of Harrow School wrote a best selling book about high achieving state schools in England Much Promise Later that year he went on a tour of Further Education colleges and started to research the fortunes of those who do less well at school In *Other People's Children* he writes about the state of vocational education in England and the implications of his findings for a post Brexit economy

**Rethinking Knowledge** Carlo Cellucci, 2017-03-29 This monograph addresses the question of the increasing irrelevance of philosophy which has seen scientists as well as philosophers concluding that philosophy is dead and has dissolved into the sciences It seeks to answer the question of whether or not philosophy can still be fruitful and what kind of philosophy can be such The author argues that from its very beginning philosophy has focused on knowledge and methods for acquiring knowledge This view however has generally been abandoned in the last century with the belief that unlike the sciences philosophy makes no observations or experiments and requires only thought Thus in order for philosophy to once again be relevant it needs to return to its roots and focus on knowledge as well as methods for acquiring knowledge Accordingly this book deals with several questions about knowledge that are essential to this view of philosophy including mathematical knowledge Coverage examines such issues as the nature of knowledge plausibility and common sense knowledge as problem solving modeling scientific knowledge mathematical objects definitions diagrams mathematics and reality and more This monograph presents a new approach to philosophy epistemology and the philosophy of mathematics It will appeal to graduate students and researchers with interests in the role of knowledge the analytic method models of science and mathematics and reality

Metrics Vincanne Adams, 2016-03-05 This volume's contributors evaluate the accomplishments limits and consequences of using quantitative metrics in global health Whether analyzing maternal mortality rates the relationships between political goals and metrics data or the links between health outcomes and a program's fiscal support the contributors question the ability of metrics to solve global health problems They capture a moment when global health scholars and practitioners must evaluate the potential effectiveness and pitfalls of different metrics even as they remain elusive and problematic Contributors Vincanne Adams Susan Erikson Molly Hales Pierre Minn Adeola Oni Orisan Carolyn Smith Morris Marlee Tichenor Lily Walkover Claire L Wendland

**The Oxford Handbook of Environmental Political Theory** Teena Gabrielson, Cheryl Hall, John M. Meyer, David Schlosberg, 2016-01-07 Set at the intersection of political theory and environmental politics yet with broad engagement across the environmental social



sciences and humanities The Oxford Handbook of Environmental Political Theory defines illustrates and challenges the field of environmental political theory EPT Featuring contributions from distinguished political scientists working in this field this volume addresses canonical theorists and contemporary environmental problems with a diversity of theoretical approaches The initial volume focuses on EPT as a field of inquiry engaging both traditions of political thought and the academy In the second section the handbook explores conceptualizations of nature and the environment as well as the nature of political subjects communities and boundaries within our environments A third section addresses the values that motivate environmental theorists including justice responsibility rights limits and flourishing and the potential conflicts that can emerge within between and against these ideals The final section examines the primary structures that constrain or enable the achievement of environmental ends as well as theorizations of environmental movements citizenship and the potential for on going environmental action and change

**Closing the Vocabulary Gap** Alex Quigley, 2018-04-06 As teachers grapple with the challenge of a new bigger and more challenging school curriculum at every key stage and phase success can feel beyond our reach But what if there were 50 000 small solutions to help us bridge that gap In Closing the Vocabulary Gap the author explores the increased demands of an academic curriculum and how closing the vocabulary gap between our word poor and word rich students could prove the vital difference between school failure and success This must read book presents the case for teacher led efforts to develop students vocabulary and provides practical solutions for teachers across the curriculum incorporating easy to use tools resources and classroom activities

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