

*Note: While we'd like to guarantee that this answer key is 100% correct, there may be typos we missed in the proofreading. If you think an answer is wrong, check with your instructor or TA.*

1.a. (12 points) Evaluate  $\int \left( 3e^{-2x} + \frac{1}{5x} \right) dx$ .

$$\int \left( 3e^{-2x} + \frac{1}{5} + \frac{1}{x} \right) dx = 3 \left( -\frac{1}{2} e^{-2x} \right) + \frac{1}{5} \ln |x| + C = -\frac{3}{2} e^{-2x} + \frac{1}{5} \ln |x| + C$$

1.b. (14 points) Find the equation of the function  $f(x)$  for which  $f'(x) = e^{5-0.1x}$  and  $f(50) = 5$ .

$$\begin{aligned} \int e^{5-0.1x} dx &= e^{5-0.1x} \cdot \frac{1}{-0.1} + C = -10e^{5-0.1x} + C \\ \Rightarrow f(50) &= -10e^{5-0.1(50)} + C = 5 \Rightarrow -10 + C = 5 \Rightarrow C = 15 \\ \text{So } f(x) &= -10e^{5-0.1x} + 15. \end{aligned}$$

2.a. (12 points) A chemical process consumes oxygen at a rate of  $r(t) = \frac{3}{t^4}$  cubic centimeters per hour. Determine the amount of oxygen consumed between the second and fourth hour.

$$\int_2^4 3t^{-4} dt = 3t^{-3} \cdot \left( -\frac{1}{3} \right) \Big|_2^4 = -t^{-3} \Big|_2^4 = -\frac{1}{4^3} - \left( -\frac{1}{2^3} \right) = -\frac{1}{64} + \frac{8}{64} = \frac{7}{64} \text{ cubic centimeters}$$

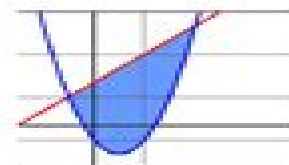
2.b. (12 points) Set up the Riemann sum (right endpoint formula) with  $n = 4$  partitions which would be used to approximate the area under the curve  $y = \sqrt{x-1}$  on the interval  $2 \leq x \leq 4$ . **DO NOT EVALUATE.**

$$\begin{aligned} \Delta x &= \frac{4-2}{4} = \frac{1}{2} \Rightarrow \text{intervals are } 2 \rightarrow 2.5 \rightarrow 3 \rightarrow 3.5 \rightarrow 4; \text{ right endpoints are } 2.5, 3, 3.5, 4 \\ \text{area under curve} &= \left[ \sqrt{2.5-1} + \sqrt{3-1} + \sqrt{3.5-1} + \sqrt{4-1} \right] \cdot \frac{1}{2}. \end{aligned}$$

3.a. (14 points) Set up the integral needed to find the area of the region bounded by the curves  $y = x^2 - 2x - 1$  and  $y = x + 3$ . **DO NOT EVALUATE.**

Sketching the graph is not necessary for your answer, but might have been helpful. To find boundaries of integration, solve for the intersection:

$$x^2 - 2x - 1 = x + 3 \Rightarrow x = -1, 4. \quad \text{area} = \int_{-1}^4 x + 3 - (x^2 - 2x - 1) dx$$



3. b. (12 points) Find the average value of the function  $y = \sqrt{x}$  on the interval  $1 \leq x \leq 4$ .

$$\text{average value of } f = \frac{1}{4-1} \cdot \int_1^4 x^{1/2} dx = \frac{1}{3} \cdot \left[ \frac{2}{3} x^{3/2} \right]_1^4 = \frac{2}{9} \cdot \left[ 4^{3/2} - 1^{3/2} \right] = \frac{2}{9} \cdot [8 - 1] = \frac{14}{9}$$

# May 2013 Math Studies Answer

**Zemira Mevarech, Bracha Kramarski**

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the authors' names.

## May 2013 Math Studies Answer:

Mathematical Modelling in Education Research and Practice Gloria Ann Stillman, Werner Blum, Maria Salett

Biembengut, 2015-07-20 In this volume cultural social and cognitive influences on the research and teaching of mathematical modelling are explored from a variety of theoretical and practical perspectives The authors of the current volume are all members of the International Community of Teachers of Mathematical Modelling and Applications the peak research body in this field A distinctive feature of this volume is the high number of authors from South American countries These authors bring quite a different perspective to modelling than has been showcased in previous books in this series in particular from a cultural point of view As well as recent international research there is a strong emphasis on pedagogical issues including those associated with technology and assessment in the teaching and learning of modelling Applications at various levels of education are exemplified The contributions reflect common issues shared globally and represent emergent or on going challenges

*MAT 20 years Topic-wise Solved Papers (1997-2016) 7th Edition* Deepak Agarwal, Shipra Agarwal, 2017-08-01  
MAT 20 years Topic wise Solved Papers 1997 2016 consists of detailed solutions of the past 20 years of MAT question papers distributed in 55 topics The book is divided into 5 sections MATHEMATICAL SKILLS LANGUAGE COMPREHENSION DATA ANALYSIS AND SUFFICIENCY INTELLIGENCE AND CRITICAL REASONING and INDIAN AND GLOBAL ENVIRONMENT These 5 sections are further divided into 55 chapters The book is also helpful for other exams like CMAT NMAT ATMA IRMA SNAP Bank PO Bank Clerk SSC Railways etc To summarise the book is aimed to serve as one stop solution for all major Competitive Exams The book contains 5800 Milestone problems for the major Competitive Exams The book is fully solved and provides detailed explanation to each and every question The layout of the book is so simple that a student can prepare revise a topic and then solve the previous year questions of that topic from this book

**Rutter's Child and Adolescent Psychiatry** Anita Thapar, Daniel S. Pine, James F. Leckman, Stephen Scott, Margaret J. Snowling, Eric A. Taylor, 2017-12-26  
Rutter's Child and Adolescent Psychiatry is the leading textbook in its field Both interdisciplinary and international it provides a coherent appraisal of the current state of the field to help researchers trainees and practicing clinicians in their daily work Integrating science and clinical practice it is a comprehensive reference for all aspects of child and adolescent psychiatry New to this full color edition are expanded coverage on classification including the newly revised Diagnostic and Statistical Manual of Mental Disorders DSM 5 and new chapters on systems neuroscience relationship based treatments resilience global psychiatry and infant mental health From an international team of expert editors and contributors this sixth edition is essential reading for all professionals working and learning in the fields of child and adolescent mental health and developmental psychopathology as well as for clinicians working in primary care and pediatric settings Michael Rutter has contributed a number of new chapters and a Foreword for this edition I greatly welcome this new edition as providing both a continuity with the past and a substantial new look Professor Sir Michael Rutter extract from Foreword Reviews of previous

editions This book is by far the best textbook of Child Adolescent Psychiatry written to date Dr Judith Rapoport NIH The editors and the authors are to be congratulated for providing us with such a high standard for a textbook on modern child psychiatry I strongly recommend this book to every child psychiatrist who wants a reliable up to date comprehensive informative and very useful textbook To my mind this is the best book of its kind available today Journal of Child Psychology and Psychiatry McGraw-Hill's LSAT, 2013 Edition Russ Falconer,Drew Johnson,2012-08-14 WE WANT TO HELP YOU SUCCEED ON THE LSAT We ve put all of our proven expertise into McGraw Hill s LSAT to make sure you re ready for this all important exam In this unique guide you ll find an innovative casebook style instructional approach along with full length practice exams fully explained practice questions and all the tools and test taking strategies you ll need to get your best LSAT score Features include 5 full length practice exams 3 in the book and 2 more interactive practice tests online at MHPPracticePlus com Proven problem solving strategies for every question type based on the authors experience as classroom teachers private tutors and curriculum developers Free online videos demonstrating effective techniques for answering LSAT questions Sample LSAT study plans tips for getting the most from the online practice tests and videos and more Inside advice on applying to law school *McGraw-Hill's LSAT with CD-ROM, 2013 Edition* Johnson,Russ Falconer,Drew Johnson,2012-08-14 WE WANT TO HELP YOU SUCCEED ON THE LSAT We ve put all of our proven expertise into McGraw Hill s LSAT to make sure you re ready for this all important exam In this unique guide you ll find an innovative casebook style instructional approach along with full length practice exams fully explained practice questions and all the tools and test taking strategies you ll need to get your best LSAT score Features include 7 full length practice exams 3 in the book 2 more on CD ROM and 2 more interactive practice tests online at MHPPracticePlus com Proven problem solving strategies for every question type based on the authors experience as classroom teachers private tutors and curriculum developers Free online videos demonstrating effective techniques for answering LSAT questions Sample LSAT study plans 50 top strategies for test day essential LSAT vocabulary and more Inside advice on applying to law school *Helping Children Learn Mathematics* Robert Reys,Mary Lindquist,Diana V. Lambdin,Nancy L. Smith,2014-11-03 The 11th Edition of Helping Children Learn Mathematics is designed to help those who are or will be teachers of mathematics in elementary schools help children develop understanding and proficiency with mathematics so they can solve problems This text is built around three main themes helping children make sense of mathematics incorporating practical experiences and using research to guide teaching It also integrates connections and implications from the Common Core Standards Mathematics CCSS M "Code of Massachusetts regulations, 2013" ,2013 Archival snapshot of entire looseleaf Code of Massachusetts Regulations held by the Social Law Library of Massachusetts as of January 2020 **Abstract Mathematical Cognition** Wolfgang Grodd,Philippe Chassy,2016-08-09 Despite the importance of mathematics in our educational systems little is known about how abstract mathematical thinking emerges Under the uniting thread of mathematical development we hope to connect

researchers from various backgrounds to provide an integrated view of abstract mathematical cognition Much progress has been made in the last 20 years on how numeracy is acquired Experimental psychology has brought to light the fact that numerical cognition stems from spatial cognition The findings from neuroimaging and single cell recording experiments converge to show that numerical representations take place in the intraparietal sulcus Further research has demonstrated that supplementary neural networks might be recruited to carry out subtasks for example the retrieval of arithmetic facts is done by the angular gyrus Now that the neural networks in charge of basic mathematical cognition are identified we can move onto the stage where we seek to understand how these basics skills are used to support the acquisition and use of abstract mathematical concepts **Journal for Research in Mathematics Education** ,2015 *Journal of Developmental Education* ,2017 Statistics for Research and Life Gary W. Lewandowski, Jr.,Kevin P. McIntyre,2023-11-01 Statistics for Research and Life is the step by step guide to statistics that prepares students for success in the psychology major in daily life and in their careers Parliamentary Debates (Hansard). Great Britain. Parliament. House of Commons,2013

*McGraw-Hill Education SAT 2015* Christopher Black,Mark Anestis,2014-06-13 WE WANT TO HELP YOU SUCCEED ON THE SAT We ve put all of our proven expertise into McGraw Hill Education SAT to make sure you re ready for this difficult exam With this book you ll get essential skill building techniques and strategies developed by professional SAT instructors who have helped thousands of students just like you to succeed on this important test You ll get online help 6 full length practice tests hundreds of practice problems and all the facts about the current exam With McGraw Hill Education SAT we ll guide you step by step through your preparation program and give you the tools you need to succeed Features Include 6 full length practice SATs 4 in the book and 2 interactive tests online at MHPpracticePlus.com FREE customizable Test Planner app Hundreds of sample questions with explanations Strategies to help you answer every type of SAT question **The School Executive** ,1925 **American Educational Digest** ,1925 **Critical Maths for Innovative Societies** Zemira Mevarech,Bracha Kramarski,2014 How can mathematics education foster development of the skills required by innovative societies Mathematics education is heavily emphasized worldwide but it is still considered to be a stumbling block for many students While there is near consensus that mathematics problems appropriate for the twenty first century should be complex unfamiliar and nonroutine CUN most of the textbooks still include mainly routine problems based on the application of ready made algorithms The time has come to introduce innovative instructional methods to enhance mathematics education and students ability to solve CUN tasks Metacognitive pedagogies which explicitly train students to think about their thinking can play a key role These pedagogies can be used to improve not just academic achievement for example content knowledge and the ability to handle unfamiliar problems but also affective outcomes such as anxiety and motivation The strong relationship between metacognition and schooling outcomes has implications for both the education community and policymakers Indian National Bibliography ,2016 **The Parliamentary Debates (Hansard)**. Great Britain.

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Entrance Examination Board,1984

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