

2015 Amc 10 B Answers

This book is designed primarily for undergraduates in mathematics, engineering, and the physical sciences. Rather than concentrating on technical skills, it focuses on a deeper understanding of the subject by providing many unusual and challenging examples. The basic topics of vector geometry, differentiation and integration in several variables are explored. It also provides numerous computer illustrations and tutorials using MATLAB® and Maple®, that bridge the gap between analysis and computation. Features:

- Includes numerous computer illustrations and tutorials using MATLAB® and Maple®
- Covers the major topics of vector geometry, differentiation, and integration in several variables
- Instructors' ancillaries available upon adoption

This is a challenging problem-solving book in Euclidean geometry, assuming nothing of the reader other than a good deal of courage. Topics covered included cyclic quadrilaterals, power of a point, homothety, triangle centers; along the way the reader will meet such classical gems as the nine-point circle, the Simson line, the symmedian and the mixtilinear incircle, as well as the theorems of Euler, Ceva, Menelaus, and Pascal. Another part is dedicated to the use of complex numbers and barycentric coordinates, granting the reader both a traditional and computational viewpoint of the material. The final part consists of some more advanced topics, such as inversion in the plane, the cross ratio and projective transformations, and the theory of the complete quadrilateral. The exposition is friendly and relaxed, and accompanied by over 300 beautifully drawn figures. The emphasis of this book is placed squarely on the problems. Each chapter contains carefully chosen worked examples, which explain not only the solutions to the problems but also

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describe in close detail how one would invent the solution to begin with. The text contains a selection of 300 practice problems of varying difficulty from contests around the world, with extensive hints and selected solutions. This book is especially suitable for students preparing for national or international mathematical olympiads or for teachers looking for a text for an honor class.

This book is the second collection of essays on reproductive ethics from Drs. Campo-Engelstein and Burcher. This volume is unique in that it is both timely and includes several essays on new technologies, while also being a comprehensive review of most of the major questions in the field, from racial disparities in reproductive healthcare to gene editing and the possibility of the creation of a transhuman species. The scholars writing these essays are pre-eminent in their fields, and their backgrounds are quite varied, including philosophers, anthropologists, physicians, and professors of law. Reproductive ethics remains an underdeveloped area of bioethics despite the recent technological breakthroughs that carry both great promise and potential threats. Building on the first volume of work from a conference held just over one year ago, this new collection of essays from a conference held April 2017 continues this discussion as well as provides ethical insights and reviews of these emerging technologies. The ethical questions swirling around human reproduction are both old and new, but the conference presentations, and the essays derived from them, focus on new ways of appreciating old arguments such as the ethics of abortion, as well as new ways of seeing new technologies such as CRISPR and mitochondrial transfer.

Virtual reality (VR) potentially provides our minds with direct access to digital media in a way that at first seems to have no limits. However, creating compelling VR experiences is an incredibly complex challenge. When VR is done well, the

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results are brilliant and pleasurable experiences that go beyond what we can do in the real world. When VR is done badly, not only is the system frustrating to use, but sickness can result. Reasons for bad VR are numerous; some failures come from the limitations of technology, but many come from a lack of understanding perception, interaction, design principles, and real users. This book discusses such issues, focusing upon the human element of VR rather than technical implementation, for if we do not get the human element correct, then no amount of technology will make VR anything more than an interesting tool confined to research laboratories. Even when VR principles are fully understood, first implementations are rarely novel and never ideal due to the complex nature of VR and the countless possibilities. However, the VR principles discussed within enable us to intelligently experiment with the rules and iteratively design towards innovative experiences.

The Pastor's Daughter -- Against the Tide -- Leipzig -- Berlin -- 1989 -- The Apprentice -- To the Chancellery at Last -- Her First American President -- Dictators -- The Private Chancellor -- Limited Partners -- Europe is Speaking German Now -- "Get me Angela on the Phone" -- The Summer of Reem -- The Worst of Times -- Enter Trump -- Something Has Changed in Our Country... -- A Partner at Last? -- Toward the End.

The Australian Medical Council (AMC) put this book together to assist overseas-trained doctors appearing for the AMC AMCQ examination. This book is a valuable guide and self-assessment tool for this exam. It also illustrates the best-practice principles for a wide range of medical conditions found in the Australian community. All medical students will find this book an invaluable aid as an educational resource in preparation for their clinical assessments, as should postgraduate trainees preparing for higher degrees across

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the spectrum of general and specialist practice. The questions are representative of curricula of medical schools at universities across Australia.

Concentrate QandA Human Rights and Civil Liberties offers unrivalled exam and coursework support for when you're aiming high. The new Concentrate QandA series is the result of a collaboration involving hundreds of law students and lecturers from universities across the UK. The result is a series that offers you better support and a greater chance to succeed on your law course than any of its rivals. This essential studyguide contains a variety of model answers to give you the confidence to tackle any essay or problem question, and the skills you need to excel. DT Knowing the right answer is a start, knowing how to structure it gets you the highest marks: annotated answers guide you step by step through the structure of a great answer, and show you how to ensure you focus on the heart of the question DT Recognize and recall: user-friendly layout ensures that it is easy to find key information, and diagram answer plans help you visualize how to plan and structure your answers DT Aim high: avoid common mistakes, use the further reading suggestions to help you take things further and demonstrate your understanding of key academic debates to really impress DT Don't just rely on the exam to pick up your marks: a unique coursework skills chapter offers advice on researching, referencing and critical analysis - not available in any other QandA series This study guide is also accompanied by a wealth of online extras at www.oxfordtextbooks.co.uk/orc/qanda/ which include: DT Additional essay and problem questions for you to practise your technique. Questions are annotated, highlighting key terms and legal issues to help you plan your own answers. An indication of what your answers should cover is also provided. DT Video guidance on how to put an answer plan

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together DTOnline versions of all the diagram answer plans from the bookDTA glossary of key termsDTPodcasts from expert examiners on revision and exam technique, coursework technique, and advice on how to tackle other assessment methods such as MCQs and presentations "There are many textbooks available for a so-called transition course from calculus to abstract mathematics. I have taught this course several times and always find it problematic. The Foundations of Mathematics (Stewart and Tall) is a horse of a different color. The writing is excellent and there is actually some useful mathematics. I definitely like this book."--The Bulletin of Mathematics Books

Deakin's notes are full of useful information, and his book is both comprehensive and captivating. - ISISIn the late fourth and early fifth centuries of our era, Hypatia of Alexandria was the world's greatest living mathematician and astronomer. A strikingly beautiful woman and a devoted celibate, she lived in a city as turbulent and troubled as Baghdad or Beirut is today. She achieved fame not only in her special field, but also as a philosopher, religious thinker, and teacher who attracted a large popular following. Her life ended tragically in violence at the hands of a rampaging mob of Christian fanatics, who killed her for her pagan beliefs, some say at the instigation of St. Cyril of Alexandria.This is the first biography of Hypatia to integrate all aspects of her life. Mathematician Michael Deakin emphasizes that, though she was a philosopher, she was first and foremost a mathematician and astronomer of great accomplishment. In a fascinating narrative that brings to life a richly diverse ancient society, he describes her work so that the mathematics, presented in straightforward terms, finds its true place in the context of her life as a whole. Deakin supplies full detail on the historical, intellectual, and religious context of Hypatia's times. He also analyzes the pattern of her life and thought, and finally gives an account of

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the events leading up to her lynch-mob execution. Although this outrageous crime has made Hypatia a powerful symbol of intellectual freedom and feminist aspiration to this day, Deakin makes clear that the important intellectual contributions of her life's work should not be overshadowed by her tragic death. Michael A. B. Deakin (Melbourne, Victoria, Australia) is an honorary research fellow and formerly a senior lecturer in the School of Mathematical Sciences of Monash University.

This third volume of problems from the William Lowell Putnam Competition is unlike the previous two in that it places the problems in the context of important mathematical themes. The authors highlight connections to other problems, to the curriculum and to more advanced topics. The best problems contain kernels of sophisticated ideas related to important current research, and yet the problems are accessible to undergraduates. The solutions have been compiled from the American Mathematical Monthly, Mathematics Magazine and past competitors. Multiple solutions enhance the understanding of the audience, explaining techniques that have relevance to more than the problem at hand. In addition, the book contains suggestions for further reading, a hint to each problem, separate from the full solution and background information about the competition. The book will appeal to students, teachers, professors and indeed anyone interested in problem solving as a gateway to a deep understanding of mathematics.

The MAA was founded in 1915 to serve as a home for The American Mathematical Monthly. The mission of the Association-to advance mathematics, especially at the collegiate level-has, however, always been larger than merely publishing world-class mathematical exposition. MAA members have explored more than just mathematics; we have, as this volume tries to make evident, investigated

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mathematical connections to pedagogy, history, the arts, technology, literature, every field of intellectual endeavor. Essays, all commissioned for this volume, include exposition by Bob Devaney, Robin Wilson, and Frank Morgan; history from Karen Parshall, Della Dumbaugh, and Bill Dunham; pedagogical discussion from Paul Zorn, Joe Gallian, and Michael Starbird, and cultural commentary from Bonnie Gold, Jon Borwein, and Steve Abbott. This volume contains 35 essays by all-star writers and expositors writing to celebrate an extraordinary century for mathematics—more mathematics has been created and published since 1915 than in all of previous recorded history. We've solved age-old mysteries, created entire new fields of study, and changed our conception of what mathematics is. Many of those stories are told in this volume as the contributors paint a portrait of the broad cultural sweep of mathematics during the MAA's first century. Mathematics is the most thrilling, the most human, area of intellectual inquiry; you will find in this volume compelling proof of that claim.

Summary R in Action, Second Edition presents both the R language and the examples that make it so useful for business developers. Focusing on practical solutions, the book offers a crash course in statistics and covers elegant methods for dealing with messy and incomplete data that are difficult to analyze using traditional methods. You'll also master R's extensive graphical capabilities for exploring and presenting data visually. And this expanded second edition includes new chapters on time series analysis, cluster analysis, and classification methodologies, including decision trees, random forests, and support vector machines.

Purchase of the print book includes a free eBook in PDF, Kindle, and ePub formats from Manning Publications. About the Technology Business pros and researchers thrive on data, and R speaks the language of data analysis. R is a

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powerful programming language for statistical computing. Unlike general-purpose tools, R provides thousands of modules for solving just about any data-crunching or presentation challenge you're likely to face. R runs on all important platforms and is used by thousands of major corporations and institutions worldwide. About the Book R in Action, Second Edition teaches you how to use the R language by presenting examples relevant to scientific, technical, and business developers. Focusing on practical solutions, the book offers a crash course in statistics, including elegant methods for dealing with messy and incomplete data. You'll also master R's extensive graphical capabilities for exploring and presenting data visually. And this expanded second edition includes new chapters on forecasting, data mining, and dynamic report writing. What's Inside Complete R language tutorial Using R to manage, analyze, and visualize data Techniques for debugging programs and creating packages OOP in R Over 160 graphs About the Author Dr. Rob Kabacoff is a seasoned researcher and teacher who specializes in data analysis. He also maintains the popular Quick-R website at statmethods.net.

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only from manning.com/kabacoff2

This book summarizes current knowledge of the biology and molecular pathogenesis of aggressive lymphomas and reviews the state of the art in diagnostic and therapeutic strategies. The aim is both to provide the reader with a sound understanding of the very significant progress that has been achieved in the understanding and management of these malignancies over recent years and to facilitate appropriate choice of the therapeutic strategy in individual cases. The assessment of different prognostic parameters are clearly presented in order to permits effective risk stratification that impacts on treatment choice. Recent insights into lymphomagenesis are exemplified and may assist in identifying emerging therapeutic targets. The comprehensive and up-to-date nature of the book will make it an ideal reference for all physicians and researchers interested in lymphoma, including clinicians from various medical specialties, biologists, pathologists, radiologists and nuclear medicine specialist, as well as students.

A stunningly ambitious and entertaining novel that gives us a counter-factual history of the modern world, from the author of the international bestseller HHHH. Binet's best book yet: the work of a major writer just hitting his stride. A delightful counterfactual novel. ***** - Daily Telegraph c.1000AD: Erik the Red's daughter heads south from Greenland 1492: Columbus does not discover America 1531: the Incas invade Europe Freydis is the leader of a band of Viking warriors who get as far as Panama. Nobody knows what became of them... Five hundred years later, Christopher Columbus is sailing for the Americas, dreaming of gold and conquest. Even when captured by Incas, his faith in his superiority and his mission is unshaken. Thirty years after that, Atahualpa, the last Inca emperor, arrives in Europe. What does he find? The Spanish Inquisition, the Reformation, capitalism, the miracle of the

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printing press, endless warmongering between the ruling monarchies, and constant threat from the Turks. But most of all, downtrodden populations ready for revolution.

Fortunately, he has a recent guidebook to acquiring power - Machiavelli's *The Prince*. It turns out he is very good at it. So, the stage is set for a Europe ruled by Incas and, when the Aztecs arrive on the scene, for a great war that will change history forever. *Civilisations* is a wildly entertaining counterfactual story about the modern world, colonisation, empire-building and the eternal human quest for domination. It is an electrifying novel by one of Europe's most exciting writers. 'What if the 1492 'discovery' of America...alerted the Incas to the existence of a land to the east that might be ripe for conquest?' *Literary Review*

AN AMC ORIGINAL SERIES FROM EXECUTIVE PRODUCER MARTI NOXON, STARRING JOY NASH AND JULIANNA MARGULIES A Best Book of the Year *Entertainment Weekly* • *Bustle* • Amazon • Women's National Book Association • *Kirkus Reviews* • *BookPage* • Kobo • *LitReactor*

"Audacious and gutsy and heartbreaking — *Dietland* completely blew me away." — Jennifer Weiner *The diet revolution is here. And it's armed. Plum Kettle does her best not to be noticed, because when you're fat, to be noticed is to be judged. With her job answering fan mail for a teen magazine, she is biding her time until her weight-loss surgery. But when a mysterious woman in colorful tights and combat boots begins following her, Plum falls down a rabbit hole into the world of Calliope House — an underground community of women who reject*

society's rules — and is forced to confront the real costs of becoming “beautiful.” At the same time, a guerilla group begins terrorizing a world that mistreats women, and Plum becomes entangled in a sinister plot. The consequences are explosive. “A giddy revenge fantasy that will shake up your thinking and burrow under your skin” (Entertainment Weekly), *Dietland* takes on the beauty industry, gender inequality, and our weight-loss obsession — with fists flying.

This book constitutes the proceedings of the 8th CCF Conference on Big Data, BigData 2020, held in Chongqing, China, in October 2020. The 16 full papers presented in this volume were carefully reviewed and selected from 65 submissions. They present recent research on theoretical and technical aspects on big data, as well as on digital economy demands in big data applications.

What do Bach's compositions, Rubik's Cube, the way we choose our mates, and the physics of subatomic particles have in common? All are governed by the laws of symmetry, which elegantly unify scientific and artistic principles. Yet the mathematical language of symmetry-known as group theory-did not emerge from the study of symmetry at all, but from an equation that couldn't be solved. For thousands of years mathematicians solved progressively more difficult algebraic equations, until they encountered the quintic equation, which

resisted solution for three centuries. Working independently, two great prodigies ultimately proved that the quintic cannot be solved by a simple formula. These geniuses, a Norwegian named Niels Henrik Abel and a romantic Frenchman named Évariste Galois, both died tragically young. Their incredible labor, however, produced the origins of group theory. The first extensive, popular account of the mathematics of symmetry and order, *The Equation That Couldn't Be Solved* is told not through abstract formulas but in a beautifully written and dramatic account of the lives and work of some of the greatest and most intriguing mathematicians in history.

In this Hugo Award–winning alternative history classic—the basis for the Amazon Original series—the United States lost World War II and was subsequently divided between the Germans in the East and the Japanese in the West. It's America in 1962. Slavery is legal once again. The few Jews who still survive hide under assumed names. In this world, we meet characters like Frank Frink, a dealer of counterfeit Americana who is himself hiding his Jewish ancestry; Nobusuke Tagomi, the Japanese trade minister in San Francisco, unsure of his standing within the bureaucracy and Japan's with Germany; and Juliana Frink, Frank's ex-wife, who may be more important than she realizes. These seemingly disparate characters gradually realize

their connections to each other just as they realize that something is not quite right about their world. And it seems as though the answers might lie with Hawthorne Abendsen, a mysterious and reclusive author, whose best-selling novel describes a world in which the US won the War... The Man in the High Castle is Dick at his best, giving readers a harrowing vision of the world that almost was. "The single most resonant and carefully imagined book of Dick's career." —New York Times

Back by popular demand, we are pleased to reissue this outstanding collection of problems and solutions from the Putnam Competitions covering the years 1938-1964. Problemists the world over, including all past and future Putnam Competitors, will revel in mastering the difficulties posed by this collection of problems from the first 25 William Lowell Putnam Competitions. Solutions to all 347 problems are given. In some cases multiple solutions are included, some which contestants could reasonably be expected to find under examination conditions, and others which are more elegant or utilize more sophisticated techniques. Valuable references and historical comments on many of the problems are presented. The book concludes with four articles on the Putnam competition written by G. Birkhoff, L. E. Bush, L. J. Mordell, and L. M. Kelly which are reprinted from the American Mathematical Monthly. There is great appeal here for all; teachers, students,

and all those who love good problems and see them as an entree to beautiful and powerful ideas.

A visionary work that combines speculative fiction with deep philosophical inquiry, *The Sparrow* tells the story of a charismatic Jesuit priest and linguist, Emilio Sandoz, who leads a scientific mission entrusted with a profound task: to make first contact with intelligent extraterrestrial life. The mission begins in faith, hope, and beauty, but a series of small misunderstandings brings it to a catastrophic end. Praise for *The Sparrow* “A startling, engrossing, and moral work of fiction.”—*The New York Times Book Review* “Important novels leave deep cracks in our beliefs, our prejudices, and our blinders. *The Sparrow* is one of them.”—*Entertainment Weekly* “Powerful . . . *The Sparrow* tackles a difficult subject with grace and intelligence.”—*San Francisco Chronicle* “Provocative, challenging . . . recalls both Arthur C. Clarke and H. G. Wells, with a dash of Ray Bradbury for good measure.”—*The Dallas Morning News* “[Mary Doria] Russell shows herself to be a skillful storyteller who subtly and expertly builds suspense.”—*USA Today*

Collection of nearly 200 unusual problems dealing with congruence and parallelism, the Pythagorean theorem, circles, area relationships, Ptolemy and the cyclic quadrilateral, collinearity and concurrency and more. Arranged in order of difficulty. Detailed solutions.

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Challenging Problems in Geometry Courier Corporation

An in-depth look into the extraordinary life of the world's most important entrepreneur, Elon Musk This fascinating and easily accessible young readers' adaptation of Ashlee Vance's New York Times bestselling *Elon Musk: Tesla, SpaceX, and the Quest for a Fantastic Future* features black-and-white photographs throughout and an epilogue. The version for adults has been praised as "riveting" (The Financial Times), "spirited" (The Wall Street Journal), and "masterful" (Vice). Now younger readers can read about this innovative leader who is revolutionizing three industries at once: space, automotive, and energy. There are few people in history who could match Elon Musk's relentless drive and vision. A modern combination of famous inventors and industrialists like Thomas Edison, Henry Ford, and Steve Jobs, Elon is the man behind companies such as SpaceX, Tesla Motors, SolarCity, and PayPal that are transforming the way we live. Written with exclusive access to Elon, his family, and his friends, this book traces Elon's journey from a kid in South Africa to a young man in the United States, his dramatic technical inventions, and his world-changing companies. Elon has sparked new levels of innovation in the world, and this book gives young readers a detailed but fast-paced look at his story. A Junior Library Guild Selection!

Chronologically organized, *Child Development From Infancy to Adolescence, Second Edition* presents topics within the field of child development through unique and highly engaging Active Learning opportunities. The Active Learning features integrated within the print text and digital program foster a dynamic and personal learning process for students. Within each chapter, authors Laura E. Levine and Joyce Munsch introduce students to a wide range of real-world applications of psychological research to child development. The in-text pedagogical features and the accompanying

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digital components help students discover the excitement of studying child development and equip them with skills they can use long after completing the course.

'Math through the Ages' is a treasure, one of the best history of math books at its level ever written. Somehow, it manages to stay true to a surprisingly sophisticated story, while respecting the needs of its audience. Its overview of the subject captures most of what one needs to know, and the 30 sketches are small gems of exposition that stimulate further exploration. --Glen van Brummelen, Quest University, President (2012-14) of the Canadian Society for History and Philosophy of Mathematics

Where did math come from? Who thought up all those algebra symbols, and why? What is the story behind π ? ... negative numbers? ... the metric system? ... quadratic equations? ... sine and cosine? ... logs? The 30 independent historical sketches in Math through the Ages answer these questions and many others in an informal, easygoing style that is accessible to teachers, students, and anyone who is curious about the history of mathematical ideas. Each sketch includes Questions and Projects to help you learn more about its topic and to see how the main ideas fit into the bigger picture of history. The 30 short stories are preceded by a 58-page bird's-eye overview of the entire panorama of mathematical history, a whirlwind tour of the most important people, events, and trends that shaped the mathematics we know today. "What to Read Next" and reading suggestions after each sketch provide starting points for readers who want to learn more. This book is ideal for a broad spectrum of audiences, including students in history of mathematics courses at the late high school or early college level, pre-service and in-service teachers, and anyone who just wants to know a little more about the origins of mathematics.

The world's most effective CPA exam prep system – Financial

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Accounting and Reporting module Wiley CPAexcel Exam Review is the world's most trusted study guide for the Certified Public Accountant's exam – complete, comprehensive, and updated to align with the latest exam content. With 2,800 practice questions and solutions across four volumes, the unique modular format helps you organize your study program, zeroing in on areas that need work. This volume, Financial Accounting and Reporting, contains all current AICPA content requirements, providing total coverage of this section of the exam. You'll get detailed outlines and study tips, simulation and multiple choice questions, and skill-building problems that have made this guide the most effective CPA prep system for over thirty years. The uniform CPA exam is updated annually to include new laws, regulations, and guidelines, so it's important that your study guide be up to date as well. Wiley CPAexcel Exam Review is updated annually to reflect the latest version of the exam, and is the number-one bestselling CPA study guide in the world because it provides full, comprehensive coverage of all exam content, and more practice questions than any other guide – many of which are taken directly from past exams. The unique format allows you to: Identify, target, and master problem areas section by section Learn how to logically build your knowledge stores for better recall Practice with thousands of sample questions taken from past exams Review all exam content, including the newest guidelines and regulations No one wants surprises on exam day, and thorough preparation is the key to successful performance. Whether you're embarking on a new study program, or just need a quick refresher before the exam, Wiley CPAexcel Exam Review is proven to be the most current, complete, comprehensive prep you can get. **EVERYTHING YOU NEED TO HELP SCORE A PERFECT 5--now with 66% more practice than previous editions! Ace**

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the AP Calculus AB Exam with this comprehensive study guide, which includes 5 full-length practice tests, content reviews, targeted strategies, and access to online extras. Techniques That Actually Work. - Tried-and-true strategies to help you avoid traps and beat the test - Tips for pacing yourself and guessing logically - Essential tactics to help you work smarter, not harder Everything You Need to Know to Help Achieve a High Score. - Comprehensive content review for all test topics - Updated to align with the latest College Board standards - Engaging activities to help you critically assess your progress - Access to study plans, a handy list of formulas, helpful pre-college information, and more via your online Student Tools Practice Your Way to Excellence. - 4 full-length practice tests (3 in the book, 1 online) with detailed answer explanations - Practice drills at the end of each content review chapter - Handy reference guide of key calculus formulas

When a small-town family is pushed to the brink, how far will they go to protect one of their own? An edgy, propulsive read about what we will do in the name of love and blood Tony has always looked out for his younger brother, Nick. So when he's called to a hospital bed where Nick is lying battered and bruised after a violent sexual assault, his protective instincts flare, and a white-hot rage begins to build. As a small-town New England lawyer, Tony's wife, Julia, has cases involving kids all the time. When Detective Rice gets assigned to this one, Julia feels they're in good hands. Especially because she senses that Rice, too, understands how things can quickly get complicated. Very complicated. After all, one moment Nick was having a drink with a handsome stranger; the next, he was at the center of an investigation threatening to tear not only him, but his entire family, apart. And now his attacker, out on bail, is disputing Nick's version of what happened. As Julia tries to help her brother-in-law, she sees

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Tony's desire for revenge, to fix things for Nick, getting out of control. Tony is starting to scare her. And before long, she finds herself asking: does she really know what her husband is capable of? Or of what she herself is? Exploring elements of doubt, tragedy, suspense, and justice, *The Damage* is an all-consuming read that marks the explosive debut of an extraordinary new writer.

This book takes the reader on a journey through the world of college mathematics, focusing on some of the most important concepts and results in the theories of polynomials, linear algebra, real analysis, differential equations, coordinate geometry, trigonometry, elementary number theory, combinatorics, and probability. Preliminary material provides an overview of common methods of proof: argument by contradiction, mathematical induction, pigeonhole principle, ordered sets, and invariants. Each chapter systematically presents a single subject within which problems are clustered in each section according to the specific topic. The exposition is driven by nearly 1300 problems and examples chosen from numerous sources from around the world; many original contributions come from the authors. The source, author, and historical background are cited whenever possible. Complete solutions to all problems are given at the end of the book.

This second edition includes new sections on quadratic polynomials, curves in the plane, quadratic fields, combinatorics of numbers, and graph theory, and added problems or theoretical expansion of sections on polynomials, matrices, abstract algebra, limits of sequences and functions, derivatives and their applications, Stokes' theorem, analytical geometry, combinatorial geometry, and counting strategies. Using the W.L. Putnam Mathematical Competition for undergraduates as an inspiring symbol to build an appropriate math background for graduate studies in pure or applied mathematics, the reader is eased into transitioning

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from problem-solving at the high school level to the university and beyond, that is, to mathematical research. This work may be used as a study guide for the Putnam exam, as a text for many different problem-solving courses, and as a source of problems for standard courses in undergraduate mathematics. Putnam and Beyond is organized for independent study by undergraduate and graduate students, as well as teachers and researchers in the physical sciences who wish to expand their mathematical horizons.

An Introduction to Statistical Learning provides an accessible overview of the field of statistical learning, an essential toolset for making sense of the vast and complex data sets that have emerged in fields ranging from biology to finance to marketing to astrophysics in the past twenty years. This book presents some of the most important modeling and prediction techniques, along with relevant applications. Topics include linear regression, classification, resampling methods, shrinkage approaches, tree-based methods, support vector machines, clustering, and more. Color graphics and real-world examples are used to illustrate the methods presented. Since the goal of this textbook is to facilitate the use of these statistical learning techniques by practitioners in science, industry, and other fields, each chapter contains a tutorial on implementing the analyses and methods presented in R, an extremely popular open source statistical software platform. Two of the authors co-wrote The Elements of Statistical Learning (Hastie, Tibshirani and Friedman, 2nd edition 2009), a popular reference book for statistics and machine learning researchers. An Introduction to Statistical Learning covers many of the same topics, but at a level accessible to a much broader audience. This book is targeted at statisticians and non-statisticians alike who wish to use cutting-edge statistical learning techniques to analyze their data. The text assumes only a previous course in linear regression and no knowledge

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of matrix algebra.

This “deeply immersive novel” (The Washington Post) from the author of the award-winning Preparation for the Next Life is an “epic coming-of-age tale filled with pain, heartache, fear, and undying love” (The Associated Press), as a young man’s yearning to protect his dying mother requires him to risk destroying his estranged, enigmatic, powerful father.

“From its hypnotic opening pages, we find ourselves in the sure hands of a roaming omniscient narrator, one who knows intimately the beating hearts of its two central characters”

—Andre Dubus III, The New York Times Book Review Corey Goltz grows up in the working-class outskirts of Boston as the only child of Gloria, whose ambitions were derailed early but who has always given her son everything she can. Corey, restless, dreams of leaving home for a great adventure.

Instead, when he is fifteen, the world comes crashing down upon him, when Gloria is diagnosed with ALS and, too late, his estranged father, Leonard—a man of great charisma but dubious moral character—reenters the picture. Determined to be his mother’s hero at any cost, Corey begins shouldering responsibility for her expensive medical care, pushing himself to his physical and emotional limits as her disease cruelly progresses. And as Leonard’s influence over Corey grows, Corey must dismantle the myth of his father’s genius and confront the evil that lurks beneath it. Gritty, visceral, and profoundly stirring, *The War for Gloria* tells the story of a young man, straddling childhood and adulthood, whose yearning to protect his mother requires him to risk destroying his father. An indelible work from a strikingly original voice in American fiction.

By the Consortium for Mathematics and Its Applications.

"This book is a message from autistic people to their parents, friends, teachers, coworkers and doctors showing what life is like on the spectrum. It's also my love letter to autistic people.

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For too long, we have been forced to navigate a world where all the road signs are written in another language." With a reporter's eye and an insider's perspective, Eric Garcia shows what it's like to be autistic across America. Garcia began writing about autism because he was frustrated by the media's coverage of it; the myths that the disorder is caused by vaccines, the narrow portrayals of autistic people as white men working in Silicon Valley. His own life as an autistic person didn't look anything like that. He is Latino, a graduate of the University of North Carolina, and works as a journalist covering politics in Washington D.C. Garcia realized he needed to put into writing what so many autistic people have been saying for years; autism is a part of their identity, they don't need to be fixed. In *We're Not Broken*, Garcia uses his own life as a springboard to discuss the social and policy gaps that exist in supporting those on the spectrum. From education to healthcare, he explores how autistic people wrestle with systems that were not built with them in mind. At the same time, he shares the experiences of all types of autistic people, from those with higher support needs, to autistic people of color, to those in the LGBTQ community. In doing so, Garcia gives his community a platform to articulate their own needs, rather than having others speak for them, which has been the standard for far too long.

Advanced Mathematical Concepts provides comprehensive coverage of all the topics covered in a full-year Precalculus course. Its unique unit organization readily allows for semester courses in Trigonometry, Discrete Mathematics, Analytic Geometry, and Algebra and Elementary Functions. Pacing and Chapter Charts for Semester Courses are conveniently located on page T4 of the Teacher Wraparound Edition. Advanced Mathematical Concepts lessons develop mathematics using numerous examples, real-world applications, and an engaging narrative. Graphs, diagrams,

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and illustrations are used throughout to help students visualize concepts. Directions clearly indicate which problems may require the use of a graphing calculator.

Named a Most Anticipated/Best Book of the Month by: NPR * USA Today * Time * Washington Post * Vulture * Women's Wear Daily * Bustle * LitHub * The Millions * Vogue * Nylon * Shondaland * Chicago Review of Books * The Guardian * Los Angeles Times * Kirkus * Publishers Weekly So often deployed as a jingoistic, even menacing rallying cry, or limited by a focus on passing moments of liberation, the rhetoric of freedom both rouses and repels. Does it remain key to our autonomy, justice, and well-being, or is freedom's long star turn coming to a close? Does a continued obsession with the term enliven and emancipate, or reflect a deepening nihilism (or both)? *On Freedom* examines such questions by tracing the concept's complexities in four distinct realms: art, sex, drugs, and climate. Drawing on a vast range of material, from critical theory to pop culture to the intimacies and plain exchanges of daily life, Maggie Nelson explores how we might think, experience, or talk about freedom in ways responsive to the conditions of our day. Her abiding interest lies in ongoing "practices of freedom" by which we negotiate our interrelation with—indeed, our inseparability from—others, with all the care and constraint that entails, while accepting difference and conflict as integral to our communion. For Nelson, thinking publicly through the knots in our culture—from recent art-world debates to the turbulent legacies of sexual liberation, from the painful paradoxes of addiction to the lure of despair in the face of the climate crisis—is itself a practice of freedom, a means of forging fortitude, courage, and company. *On Freedom* is an invigorating, essential book for challenging times.

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