

# ALGEBRA I FINAL EXAM

Directions: Choose the best answer for each question.

1. Find the difference of the polynomials.

$$(3x^2 - 2xy + y^2) - (-5x^2 + 6xy - y^2)$$

- a.  $2x^2 - 3xy$
- b.  $8x^2 - 11xy$
- c.  $2x^2 - 3xy + 2y$
- d.  $8x^2 - 8xy + 2y^2$

3. Find the product.

$$(5x - 3y)(6x + y)$$

- a.  $30x^2 + 23xy + 3y^2$
- b.  $30x^2 - 13xy - 3y^2$
- c.  $35x - xy - 4y^2$
- d.  $15x^2 - 23xy - 3y^2$

5. What property is represented below?

$$6 \cdot (3 \cdot 2) = (3 \cdot 2) \cdot 6$$

- a. commutative property
- b. identity property
- c. inverse property
- d. associative property

7. Find the roots of the quadratic function.

$$f(x) = 6x^2 - 5x - 2$$

- a.  $x = 6; x = -2$
- b.  $x = \frac{5 \pm \sqrt{13}}{2}$
- c.  $x = 1 \pm \sqrt{73}$
- d.  $x = \frac{5 \pm \sqrt{73}}{12}$

2. Which inequality best represents the graph?

- a.  $y < \frac{2}{3}x + 1$
- b.  $y \leq \frac{2}{3}x + 1$
- c.  $y \geq \frac{2}{3}x + 1$
- d.  $y < -\frac{3}{2}x + 1$



4. Jeffrey bought a collectable baseball card for \$12. If the value of the card appreciated by 9.4% each year, how much will the card be worth in 7 years?

- a. \$22.51
- b. \$112.80
- c. \$1,241.06
- d. \$39.27

6. Evaluate the expression when  $x = 2$  and  $y = -3$ .

$$3y^2 - 2(5x + 3) - 1$$

- a. 0
- b. -3
- c. 10
- d. -4

8. Find the solution to the system of linear equations below.

$$\begin{aligned} 6x - 5y &= 1 \\ y &= 2x - 1 \end{aligned}$$

- a.  $(-1, 3)$
- b.  $(1, 1)$
- c.  $(1, 2)$
- d.  $(0, 2)$

# May 2013 Math Studies Answer

**D Keegan**



## May 2013 Math Studies Answer:

Answers to Your Biggest Questions About Teaching Secondary Math Frederick L. Dillon, Ayanna D. Perry, Andrea Cheng, Jennifer Outzs, 2022-03-22 Let's face it teaching secondary math can be hard So much about how we teach math today may look and feel different from how we learned it Teaching math in a student centered way changes the role of the teacher from one who traditionally delivers knowledge to one who fosters thinking Most importantly we must ensure our practice gives each and every student the opportunity to learn grow and achieve at high levels while providing opportunities to develop their agency and authority in the classroom which results in a positive math identity Whether you are a brand new teacher or a veteran if you find teaching math to be quite the challenge this is the guide you want by your side Designed for just in time learning and support this practical resource gives you brief actionable answers to your most pressing questions about teaching secondary math Written by four experienced math educators representing diverse experiences these authors offer the practical advice they wish they received years ago from lessons they've learned over decades of practice research coaching and through collaborating with teams teachers and colleagues especially new teachers every day Questions and answers are organized into five areas of effort that will help you most thrive in your secondary math classroom How do I build a positive math community How do I structure organize and manage my math class How do I engage my students in math How do I help my students talk about math How do I know what my students know and move them forward Woven throughout you'll find helpful sidebar notes on fostering identity and agency access and equity teaching in different settings and invaluable resources for deeper learning The final question Where do I go from here offers guidance for growing your practice over time Strive to become the best math educator you can be your students are counting on it What will be your first step on the journey

*Closing the Gap* Vicky Neale, 2017 Since 2013 mathematicians from around the world have made dramatic progress on a problem in number theory that goes back centuries the Twin Primes Conjecture which asserts that there are infinitely many pairs of prime numbers that differ by 2 for example 17 and 19 is such a pair This book describes two stories that of the recent work on the Twin Primes Conjecture and in parallel the related ideas around primes from the previous two thousand years of mathematics

*Advanced Research Methods for the Social and Behavioral Sciences* John E. Edlund, Austin Lee Nichols, 2019-03-14 Written by an interdisciplinary team of global experts this book is an invaluable tool for anyone learning about research methods

**Early Elementary Mathematics Lessons to Explore, Understand, and Respond to Social Injustice** Courtney Koestler, Jennifer Ward, Maria del Rosario Zavala, Tonya Gau Bartell, 2022-07-20 This book is a must read for all elementary educators A call to action the guide for teachers offers incredible resources including powerful lesson plans to engage readers in the practice of teaching mathematics for social justice in early childhood settings An immense contribution to the conversation around social justice and mathematics in elementary education Ruchi Agarwal Rangnath Assistant Professor University of San Francisco San Francisco CA Empower children to be the change join the

teaching mathematics for social justice movement We live in an era in which students of all ages have through media and their lived experiences a more visceral experience of social injustices However when people think of social justice mathematics rarely comes to mind With a teacher friendly design this book brings early elementary mathematics content to life by connecting it to the natural curiosity and empathy young children bring with them and the issues they experience Tested in PK 2 classrooms the model lessons contributed in this book walk teachers through the process of applying critical frameworks to instruction using standards based mathematics to explore understand and respond to social justice issues Learn to plan instruction that engages children in mathematics explorations through age appropriate culturally relevant topics such as fairness valuing diversity and difference representation and inequality and environmental justice Features include Content cross referenced by mathematical concept and social issues Connection to Learning for Justice s social justice standards Downloadable instructional materials and lesson resources Guidance for lessons driven by children s unique passions and challenges Connections between research and practice Written for teachers committed to developing equitable and just practices through the lens of mathematics content and practice standards as well as social justice standards this book will help connect content to children s daily lives fortify their mathematical understanding and expose them to issues that will support them in becoming active citizens and leaders *Psychopathology and Mental Distress*

Jonathan D. Raskin,2024-01-15 Selected as a 2024 Outstanding Academic Title by Choice This groundbreaking textbook offers a comprehensive overview of different approaches to the causes assessment and treatment of psychological disorders The book includes important diagnostic frameworks including the new DSM 5 TR ICD 11 and PDM but also widens the scope of coverage beyond mainstream psychiatric models to include psychological biological historical sociocultural and therapeutic approaches Contemporary and well balanced this book provides an even handed and holistic foundation allowing students to develop a strong critical mindset while retaining a robust research driven orientation This new edition features an innovative structure organized by presenting problem examining each in a broad context of traditional psychiatric and alternative approaches is grounded in lived experience of disorder shining a spot light on service users through Case Examples scenarios and Lived Experience perspective pieces Supports student learning and critical thinking through engaging Controversial Question and In Depth features Features an attractive new layout and plenty of colour illustrations Is supported by impressive online support features including lecture slides a test bank instructor manual video library student study questions self test quizzes flashcard activities and more Now thoroughly updated to include the latest developments in research and clinical practice along with enhanced in text and online pedagogy to support instructors and learners this book is ideal for undergraduate and graduate students on abnormal psychology psychopathology mental health or clinical psychology courses Education Is Not an App Jonathan A. Poritz,Jonathan Rees,2016-08-12 Whilst much has been written

about the doors that technology can open for students less has been said about its impact on teachers and professors

Although technology undoubtedly brings with it huge opportunities within higher education there is also the fear that it will have a negative effect both on faculty and on teaching standards Education Is Not an App offers a bold and provocative analysis of the economic context within which educational technology is being implemented not least the financial problems currently facing higher education institutions around the world The book emphasizes the issue of control as being a key factor in whether educational technology is used for good purposes or bad purposes arguing that technology has great potential if placed in caring hands Whilst it is a guide to the newest developments in education technology it is also a book for those faculty technology professionals and higher education policy makers who want to understand the economic and pedagogical impact of technology on professors and students It advocates a path into the future based on faculty autonomy shared governance and concentration on the university's traditional role of promoting the common good Offering the first critical in depth assessment of the political economy of education technology this book will serve as an invaluable guide to concerned faculty as well as to anyone with an interest in the future of higher education

**Mathematics Anxiety** Irene C. Mammarella, Sara Caviola, Ann Dowker, 2019-02-18 Feelings of apprehension and fear brought on by mathematical performance can affect correct mathematical application and can influence the achievement and future paths of individuals affected by it In recent years mathematics anxiety has become a subject of increasing interest both in educational and clinical settings This ground breaking collection presents theoretical educational and psychophysiological perspectives on the widespread phenomenon of mathematics anxiety Featuring contributions from leading international researchers Mathematics Anxiety challenges preconceptions and clarifies several crucial areas of research such as the distinction between mathematics anxiety from other forms of anxiety i e general or test anxiety the ways in which mathematics anxiety has been assessed e g throughout self report questionnaires or psychophysiological measures the need to clarify the direction of the relationship between math anxiety and mathematics achievement which causes which Offering a revaluation of the negative connotations usually associated with mathematics anxiety and prompting avenues for future research this book will be invaluable to academics and students in the field psychological and educational sciences as well as teachers working with students who are struggling with mathematics anxiety

**The BERA/SAGE Handbook of Educational Research** Dominic Wyse, Neil Selwyn, Emma Smith, Larry E. Suter, 2016-12-15 Education has continued to grow in stature and significance as an academic discipline In addition to world renowned research studies the growth of education has been seen in the methodology and methods underpinning its research The BERA SAGE Handbook of Educational Research provides a cutting edge account of the research and methodology that is creating new understandings for education research policy and practice Over two volumes the handbook addresses educational research in six essential components Section 1 Understanding Research Section 2 Planning Research Section 3 Approaches to Research Section 4 Acquiring Data Section 5 Analysing Data Section 6 Reporting Disseminating and Evaluating Research Featuring contributions from more than 50 of

the biggest names in the international field The BERA SAGE Handbook of Educational Research represents a very significant contribution to the development of education

**Emerging Trends in Smart Societies** Worakamol Wisetsri, Philip Clingan, Rocky J. Dwyer, Dilrabo Bakhronova, 2024-06-24 Emerging Trends in Smart Societies Interdisciplinary Perspectives captures the essence of the groundbreaking initiative heralded by the inaugural International Conference on Humanities for Smart Societies 2023 HMSS 23 This milestone event convenes a global cohort of scholars policymakers and thinkers transcending geographical confines via a pioneering virtual platform The book crystallizes the convergence of diverse disciplines from humanities to management fostering an exchange of innovative ideas vital for sustainable digitally transformed societies By orchestrating cross disciplinary dialogues this anthology unveils novel solutions and holistic approaches to contemporary challenges

**Basic Laboratory Calculations for Biotechnology** Lisa A. Seidman, 2021-12-28 To succeed in the lab it is crucial to be comfortable with the math calculations that are part of everyday work This accessible introduction to common laboratory techniques focuses on the basics helping even readers with good math skills to practice the most frequently encountered types of problems Basic Laboratory Calculations for Biotechnology Second Edition discusses very common laboratory problems all applied to real situations It explores multiple strategies for solving problems for a better understanding of the underlying math Primarily organized around laboratory applications the book begins with more general topics and moves into more specific biotechnology laboratory techniques at the end This book features hundreds of practice problems all with solutions and many with boxed complete explanations plus hundreds of story problems relating to real situations in the lab Additional features include Discusses common laboratory problems with all material applied to real situations Presents multiple strategies for solving problems help students to better understand the underlying math Provides hundreds of practice problems and their solutions Enables students to complete the material in a self paced course structure with little teacher assistance Includes hundreds of story problems that relate to real situations encountered in the laboratory

Mathematical and Statistics Anxiety: Educational, Social, Developmental and Cognitive Perspectives Kinga Morsanyi, Irene Cristina Mammarella, Denes Szűcs, Carlo Tomasetto, Caterina Primi, Erin Anne Maloney, 2017-01-19 Mathematical anxiety is a feeling of tension apprehension or fear which arises when a person is faced with mathematical content The negative consequences of mathematical anxiety are well documented Students with high levels of mathematical anxiety might underperform in important test situations they tend to hold negative attitudes towards mathematics and they are likely to opt out of elective mathematics courses which also affects their career opportunities Although at the university level many students do not continue to study mathematics social science students are confronted with the fact that their disciplines involve learning about statistics another potential source of anxiety for students who are uncomfortable with dealing with numerical content Research on mathematical anxiety is a truly interdisciplinary field with contributions from educational developmental cognitive social and neuroscience researchers The current collection of papers

demonstrates the diversity of the field offering both new empirical contributions and reviews of existing studies The contributors also outline future directions for this line of research      *Social Cognition, Motivation, and Interaction: How Do People Respond to Threats in Social Interactions?* Eva Jonas,Christina Mühlberger,2018-01-12 If we want to understand people s responses to threats in social interactions we can distinguish between three levels of analysis On a social level of analysis we can describe people s interpersonal behavior on a cognitive level we can identify corresponding information processing mechanisms and on a neural level we can specify neural systems which underlie these processes In this Research Topic we want to present research connecting these three levels of analysis and propose their functional interconnection in social interaction We propose that threats in social interactions activate basic motivational processes which manifest in neural processes related to behavioral inhibition vs activation in a social situation This shapes our attention to new information and affects our cognitions about social identities belief systems and worldviews These changes in social cognition in turn affect people s behavior in social interactions and lead to corresponding reactions on behalf of the interaction partner Thus we assume that people s reactions to threat in interactions can be described as sequences of broader attentional processes resulting from basic motivational tendencies leading to specific social cognitions and subsequent behavior within social interactions We can analyze this sequence in order to contribute to a better understanding of social interactions The three levels of analyses social cognitive neural shed light on social interactions from different angles On the social level we can analyze how the behaviors of the interaction partners mutually affect each other and how this is accompanied by specific cognitive emotional and motivational processes On the cognitive level we can analyze people s perception of a social situation leading to attentional and reasoning processes with regard to their interaction partner s which may be accompanied by certain emotional and motivational processes and determines the behavior towards the partner s Finally we can focus on the neural mechanisms underlying cognitive emotional and motivational processes in social interactions      Managing the New Tools in K-12 Teaching and Learning Jerome A. Schulz,2018-02-02 Managing the New Tools in K 12 Teaching and Learning How Technology Can Enable School Improvement is about how to manage technology for learning at the district and school levels It provides an overview of the components of learning technology these include student devices networking software productivity toolkits electronic curricula and resources and data system infrastructure And it discusses how we can manage our technology efforts more effectively to help our students attain the benefits of this technology The book concludes with case studies of how this is being done at pioneering districts We are now at a tipping point in implementing learning technology on a larger scale This is happening very quickly Historically learning technology was driven by a strategy of technology integration where we called on individual teachers to each determine how to use technology in their classes and make changes in their own ways of working But to successfully implement technology on the scale we need requires top down as well as bottom up efforts Managing the New Tools in K 12 Teaching and Learning focuses on how districts and

schools can now use technology to bring about the big improvements in learning we are all striving for

**Life by Algorithms** Catherine Besteman, Hugh Gusterson, 2019-05-23 Essays on the downsides dysfunctions and dangers of automated decision making An excellent survey of the algorithmically managed life Choice The phone systems that businesses use to screen calls The link between student standardized test scores and public schools access to resources The algorithms that regulate patient diagnoses and reimbursements to doctors The impenetrable corporate bureaucracy that can drive customers in need of help up the wall or drive them to suicide The storage sorting and analysis of massive amounts of information have enabled the automation of decision making at an unprecedented level Meanwhile computers have offered a model of cognition that increasingly shapes our approach to the world The proliferation of robo-processes is the result as editors Catherine Besteman and Hugh Gusterson observe in this rich and wide ranging volume which features contributions from a distinguished cast of scholars in anthropology communications international studies and political science Though automatic processes are designed to be engines of rational systems the stories in *Life by Algorithms* reveal how they can in fact produce absurd inflexible or even dangerous outcomes Joining the call for algorithmic transparency the contributors bring exceptional sensitivity to everyday sociality into their critique to better understand how the perils of modern technology affect finance medicine education housing the workplace food production public space and emotions not as separate problems but as linked manifestations of a deeper defect in the fundamental ordering of our society The Machine Stops E M Forster's 1909 science fiction story tells the tale of a human society collapsing when the technology upon which it has become dependent fails Think of this volume as *The Machine Starts* a collection of unsettling ethnographic accounts of the rise of algorithmic governance A necessary and sobering call to arms Stefan Helmreich Massachusetts Institute of Technology Contributors include Catherine Besteman Alex Blanchette Robert W Gehl Hugh Gusterson Catherine Lutz Ann Lutz Fernandez Joseph Masco Sally Engle Merry Keesha M Middlemass Noelle Stout Susan J Terrio

**Self-Concept, Motivation and Identity** Frédéric Guay, Herbert Marsh, Dennis M. McInerney, Rhonda G. Craven, 2015-06-01 The concept of the Self has a long history that dates back from the ancient Greeks such as Aristotle to more contemporary thinkers such as Wundt James Mead Cooley Freud Rogers and Erikson Tesser Felson 2000 Research on the Self relates to a range of phenomena including self esteem self concept self protection self verification self awareness identity self efficacy self determination etc that could be sharply different or very similar Despite this long tradition of thinkers and the numerous studies conducted on the Self this concept is still not very well defined More precisely it is not a precise object of study but rather a collection of loosely related subtopics Baumesiter 1998 Also in the philosophical literature the legitimacy of the concept of self has been brought into question Some authors have argued that the self is not a psychological entity per se but rather an illusion created by the complex interplay between cognitive and neurological subsystems Zahavi 2005 Although no definitive consensus has been reached regarding the Self we emphasize in this volume that the Self and its related phenomena



including self concept motivation and identity are crucial for understanding consciousness and therefore important to understand human behavior Self concept motivation and identity Underpinning success with research and practice provides thus a unique insight into self concept and its relationship to motivation and identity from varied theoretical and empirical perspectives This volume is intended to develop both theoretical and methodological ideas and to present empirical evidence demonstrating the importance of theory and research to effective practice

**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

Mathematics in Physics Education Gesche Pospiech,Marisa Michelinì,Bat-Sheva Eylon,2019-07-02 This book is about mathematics in physics education the difficulties students have in learning physics and the way in which mathematization can help to improve physics teaching and learning The book brings together different teaching and learning perspectives and addresses both fundamental considerations and practical aspects Divided into four parts the book starts out with theoretical viewpoints that enlighten the interplay of physics and mathematics also including historical developments The second part delves into the learners perspective It addresses aspects of the learning by secondary school students as well as by students just entering university or teacher students Topics discussed range from problem solving over the role of graphs to integrated mathematics and physics learning The third part includes a broad range of subjects from teachers views and knowledge the analysis of classroom discourse and an evaluated teaching proposal The last part describes approaches that take up mathematization in a broader interpretation and includes the presentation of a model for physics teachers pedagogical content knowledge PCK specific to the role of mathematics in physics

**Helping Children Learn Mathematics** Robert Reys,Mary Lindquist,Diana V. Lambdin,Nancy L. Smith,2014-10-20 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     **Detroit School Reform in Comparative Contexts** Edward St. John,Feven Girmay,2019-07-08 This book critically examines how the narrative of global economic competition was used to rationalize college preparatory curriculum for all high school students and promote charter schools in Detroit Using mixed qualitative and quantitative methods the study identifies neighborhood risk factors undermining students academic success along with the positive effects of churches and service centers as mitigating forces The authors focus on a range of topics and issues including market competition urban decline community resources testing and accountability smaller schools and engaged learning The volume illustrates how action studies by engaged scholars working with community activists empowers students to overcome emerging barriers

**Gesture-Speech Integration: Combining Gesture and Speech to Create Understanding** Naomi Sweller,Kazuki Sekine,Autumn Hostetter,2021-09-14

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