

negative math

HOW MATHEMATICAL RULES CAN
BE POSITIVELY BENT



alberto a. martínez

Negative Math How Mathematical Rules Can Be Positively Bent

Alberto A. Martinez

Negative Math How Mathematical Rules Can Be Positively Bent:

Negative Math Alberto A. Martínez, 2018-06-05 A student in class asks the math teacher Shouldn't minus times minus make minus Teachers soon convince most students that it does not Yet the innocent question brings with it a germ of mathematical creativity What happens if we encourage that thought odd and ungrounded though it may seem Few books in the field of mathematics encourage such creative thinking Fewer still are engagingly written and fun to read This book succeeds on both counts Alberto Martinez shows us how many of the mathematical concepts that we take for granted were once considered contrived imaginary absurd or just plain wrong Even today he writes not all parts of math correspond to things relations or operations that we can actually observe or carry out in everyday life Negative Math ponders such issues by exploring controversies in the history of numbers especially the so called negative and impossible numbers It uses history puzzles and lively debates to demonstrate how it is still possible to devise new artificial systems of mathematical rules In fact the book contends departures from traditional rules can even be the basis for new applications For example by using an algebra in which minus times minus makes minus mathematicians can describe curves or trajectories that are not represented by traditional coordinate geometry Clear and accessible Negative Math expects from its readers only a passing acquaintance with basic high school algebra It will prove pleasurable reading not only for those who enjoy popular math but also for historians philosophers and educators Key Features Uses history puzzles and lively debates to devise new mathematical systems Shows how departures from rules can underlie new practical applications Clear and accessible Requires a background only in basic high school algebra

Celebrating Mathematical Mistakes Nicole M.

Wessman-Enzinger, Natasha E. Gerstenschlager, 2024-10-01 In this practical guide authors Wessman Enzinger and Gerstenschlager provide a foundation for celebrating mathematical mistakes and offer several strategies and task structures that encourage creative and flexible mathematical reasoning Part of the Growing the Mathematician in Every Student collection this book moves beyond the correct incorrect paradigm by acknowledging the beauty power and ubiquity of mistakes supporting more meaningful student learning This book will help educators Learn three types of mistakes and their roles in mathematical reasoning Understand how mathematical errors encourage creativity Support students invented notation and language as demonstrations of their learning Apply strategies and task structures with real life vignettes Reflect on chapter content with prompts Contents Introduction Part 1 Celebrating Mathematical Mistakes Chapter 1 Shifting Our Views of Mistakes Chapter 2 Beautiful and Powerful Mistakes Chapter 3 Factual Procedural and Conceptual Mistakes Chapter 4 Mistakes by Mathematicians Part 2 Mathematical Mistakes in Action Chapter 5 Two Foundational Instructional Strategies for Examining Mistakes Chapter 6 Changing Minds in Mathematics Chapter 7 This or That Tasks Chapter 8 Invented Notation and Language Chapter 9 Mathematical Games Chapter 10 Mistakes in Action Epilogue References and Resources Index

[The Language of Mathematics](#) Raúl Rojas, 2025-01-14 A marvelous compendium of mathematical

symbols and their fascinating histories Galileo famously wrote that the book of nature is written in mathematical language The Language of Mathematics is a wide ranging and beautifully illustrated collection of short colorful histories of the most commonly used symbols in mathematics providing readers with an engaging introduction to the origins evolution and conceptual meaning of each one In dozens of lively and informative entries Ra l Rojas shows how today s mathematics stands on the shoulders of giants mathematicians from around the world who developed mathematical notation through centuries of collective effort He tells the stories of such figures as al Khw rizm Ren Descartes Joseph Louis Lagrange Carl Friedrich Gauss Augustin Louis Cauchy Karl Weierstrass Sofia Kovalevskaya David Hilbert and Kenneth Iverson Topics range from numbers and variables to sets and functions constants and combinatorics Rojas describes the mathematical problems associated with different symbols and reveals how mathematical notation has sometimes been an accidental process The entries are self contained and can be read in any order each one examining one or two symbols their history and the variants they may have had over time An essential companion for math enthusiasts The Language of Mathematics shows how mathematics is a living and evolving entity forever searching for the best symbolism to express relationships between abstract concepts and to convey meaning

Exploring the Integer Addition and Subtraction Landscape Laura Bofferding,Nicole M.

Wessman-Enzinger,2018-08-24 Over the past few decades there has been increased interest in how students and teachers think and learn about negative numbers from a variety of perspectives In particular there has been debate about when integers should be taught and how to teach them to best support students learning This book brings together recent work from researchers to illuminate the state of our understanding about issues related to integer addition and subtraction with a goal of highlighting how the variety of perspectives support each other or contribute to the field in unique ways In particular this book focuses on three main areas of integer work students thinking models and metaphors and teachers thinking Each chapter highlights a theoretically guided study centered on integer addition and subtraction Internationally known scholars help connect the perspectives and offer additional insights through section commentaries This book is an invaluable resource to those who are interested in mathematics education and numerical thinking

The Mathematics Teacher ,2006

Non-diophantine Arithmetics In Mathematics, Physics And Psychology Mark Burgin,Marek Czachor,2020-11-04 For a long time all thought there was only one geometry Euclidean geometry Nevertheless in the 19th century many non Euclidean geometries were discovered It took almost two millennia to do this This was the major mathematical discovery and advancement of the 19th century which changed understanding of mathematics and the work of mathematicians providing innovative insights and tools for mathematical research and applications of mathematics A similar event happened in arithmetic in the 20th century Even longer than with geometry all thought there was only one conventional arithmetic of natural numbers the Diophantine arithmetic in which $2 \ 2 \ 4$ and $1 \ 1 \ 2$ It is natural to call the conventional arithmetic by the name Diophantine arithmetic due to the important contributions to arithmetic by Diophantus Nevertheless in the 20th

century many non Diophantine arithmetics were discovered in some of which 2 2 5 or 1 1 3 It took more than two millennia to do this This discovery has even more implications than the discovery of new geometries because all people use arithmetic This book provides a detailed exposition of the theory of non Diophantine arithmetics and its various applications Reading this book the reader will see that on the one hand non Diophantine arithmetics continue the ancient tradition of operating with numbers while on the other hand they introduce extremely original and innovative ideas *The Mathematical Gazette* ,2007 *Choice* ,2006 **The British National Bibliography** Arthur James Wells,2006 **Book Review Index - 2009**

Cumulation Dana Ferguson,2009-08 Book Review Index provides quick access to reviews of books periodicals books on tape and electronic media representing a wide range of popular academic and professional interests The up to date coverage wide scope and inclusion of citations for both newly published and older materials make Book Review Index an exceptionally useful reference tool More than 600 publications are indexed including journals and national general interest publications and newspapers Book Review Index is available in a three issue subscription covering the current year or as an annual cumulation covering the past year *The Cult of Pythagoras* Alberto A. Martinez,2012-10-30 In this follow up to his popular Science Secrets Alberto A Martinez discusses various popular myths from the history of mathematics that Pythagoras proved the hypotenuse theorem that Archimedes figured out how to test the purity of a gold crown while he was in a bathtub that the Golden Ratio is in nature and ancient architecture that the young Galois created group theory the night before the pistol duel that killed him and more Some stories are partly true others are entirely false but all show the power of invention in history Pythagoras emerges as a symbol of the urge to conjecture and fill in the gaps of history He has been credited with fundamental discoveries in mathematics and the sciences yet there is nearly no evidence that he really contributed anything to such fields at all This book asks how does history change when we subtract the many small exaggerations and interpolations that writers have added for over two thousand years The Cult of Pythagoras is also about invention in a positive sense Most people view mathematical breakthroughs as discoveries rather than invention or creativity believing that mathematics describes a realm of eternal ideas But mathematicians have disagreed about what is possible and impossible about what counts as a proof and even about the results of certain operations Was there ever invention in the history of concepts such as zero negative numbers imaginary numbers quaternions infinity and infinitesimals Martinez inspects a wealth of primary sources in several languages over a span of many centuries By exploring disagreements and ambiguities in the history of the elements of mathematics The Cult of Pythagoras dispels myths that obscure the actual origins of mathematical concepts Martinez argues that an accurate history that analyzes myths reveals neglected aspects of mathematics that can encourage creativity in students and mathematicians *The Cult of Pythagoras* Alberto A. Martinez,2013-06-26 Martinez discusses various popular myths from the history of mathematics Some stories are partly true others are entirely false but all show the power of invention in history Martinez inspects a wealth of primary sources in

several languages over a span of many centuries By exploring disagreements and ambiguities in the history of the elements of mathematics The Cult of Pythagoras dispels myths that obscure the actual origins of mathematical concepts Chosen as a major selection by Scientific American Book Club Library of Science R **Instructional Computing for Today's Teachers** Edward L. Vockell, Robert H. Rivers, 1984 2000 2000, 2012 **Making Sense of Negative Numbers** Cecilia Kilham, 2011-01-01

Kinematics Alberto A. Martínez, 2009-07-13 The field of kinematics the science of motion has long been neglected and misrepresented Despite rich traditions rooted in ancient times modern physical kinematics never became a professional discipline No journals or academic societies were founded to support its development and study and most physicists took the science of motion for granted Yet some came to doubt its very principles even denouncing its basic language coordinate algebra as an impediment to scientific progress In this unique and comprehensive history of kinematics Alberto A Martínez rescues the forgotten roots of this field that led to Einstein's theory of special relativity Using clear explanations and accessible language he analyzes the development of kinematics explains how mathematics engineering philosophy and psychology pulled it in divergent directions and discusses why modern kinematics inherited old and unresolved ambiguities All students of physics and general science study basic kinematics Martínez draws from an unparalleled wealth of sources to demonstrate why it is essential to the study and evolution of physics today

How Not to Be Wrong Jordan Ellenberg, 2014-05-29 The Freakonomics of math a math world superstar unveils the hidden beauty and logic of the world and puts its power in our hands The math we learn in school can seem like a dull set of rules laid down by the ancients and not to be questioned In *How Not to Be Wrong* Jordan Ellenberg shows us how terribly limiting this view is Math isn't confined to abstract incidents that never occur in real life but rather touches everything we do the whole world is shot through with it Math allows us to see the hidden structures underneath the messy and chaotic surface of our world It's a science of not being wrong hammered out by centuries of hard work and argument Armed with the tools of mathematics we can see through to the true meaning of information we take for granted How early should you get to the airport What does public opinion really represent Why do tall parents have shorter children Who really won Florida in 2000 And how likely are you really to develop cancer *How Not to Be Wrong* presents the surprising revelations behind all of these questions and many more using the mathematician's method of analyzing life and exposing the hard won insights of the academic community to the layman minus the jargon Ellenberg chases mathematical threads through a vast range of time and space from the everyday to the cosmic encountering among other things baseball Reaganomics daring lottery schemes Voltaire the replicability crisis in psychology Italian Renaissance painting artificial languages the development of non Euclidean geometry the coming obesity apocalypse Antonin Scalia's views on crime and punishment the psychology of slime molds what Facebook can and can't figure out about you and the existence of God Ellenberg pulls from history as well as from the latest theoretical developments to provide those not trained in math with the knowledge they need Math as Ellenberg says is an atomic

powered prosthesis that you attach to your common sense vastly multiplying its reach and strength With the tools of mathematics in hand you can understand the world in a deeper more meaningful way How Not to Be Wrong will show you how **Less Than Nothing is Really Something** Robert Froman,1991 **Polarized Number System** Peter

Kosc,2024-04-28 This second book in the polarized number system series continues to demonstrate the fundamental properties of positive and negative numbers It intends to convince the reader and the mathematical establishment that positive and negative numbers are vectors not scalars as in modern mathematics The traditional understanding is gravely flawed and obsolete therefore finding the real square roots of negative numbers is impossible in the real number system On the contrary the book shows that the task is a straightforward process in the polarized number system After a brief review of Volume 1 the book uses the positive and negative electric properties of protons and electrons to demonstrate basic mathematical operations such as multiplication division the square function and the square root function The subsequent section employs the positive and negative properties of cash and debt respectively for similar operations Both sections present the concept of negative areas laying the foundations for the Pythagorean Theorem with positive and negative areas Like Volume 1 the book contains numerous detailed examples or exercises of basic mathematical operations The overly detailed nature of the book is not because the subject is complicated Instead it is because the mathematical establishment firmly believes in their understanding and perhaps leaves no room for alternatives Thus any significant changes to the dogmatic mathematics basics would send shockwaves through centuries old teaching

Whispering the Techniques of Language: An Emotional Journey through **Negative Math How Mathematical Rules Can Be Positively Bent**

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