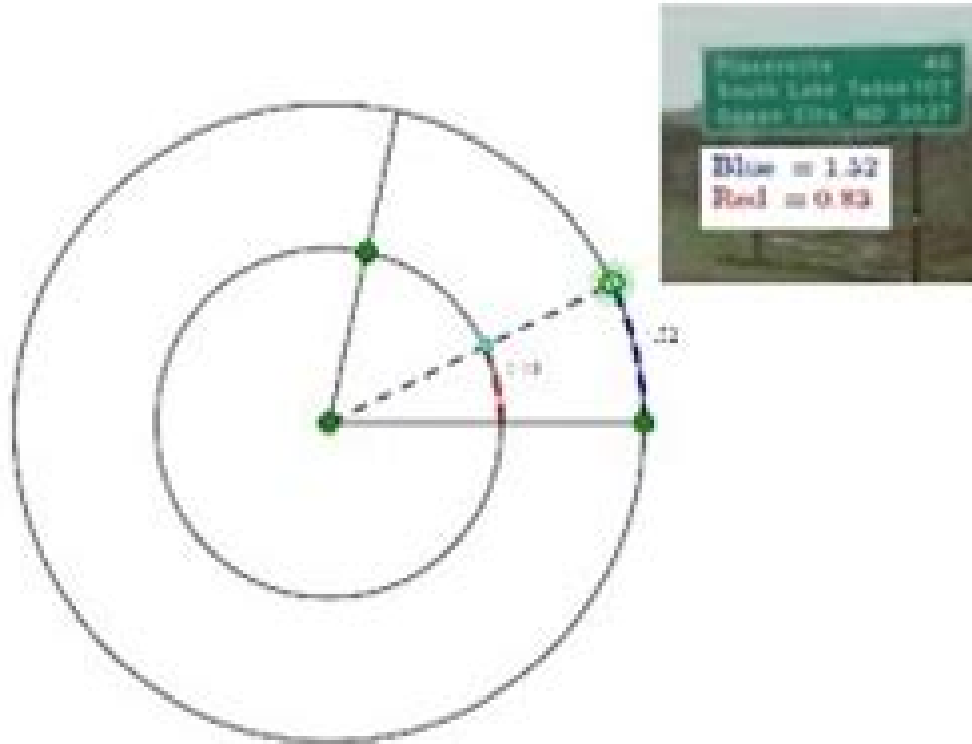


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Mathematical Cranks

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History of Mathematics: Highways and Byways Amy Dahan-Dalmedico, Jeanne Peiffer, 2020-08-03 A translation of the original 1986 French edition by Amy Dahan Dalmedico and Jeanne Peiffer both from Centre National de la Recherche Scientifique Paris this eminently readable book places the birth and development of mathematical activity in historical cultural and economic context The book offers an outstanding account for instance of how Arabs preserved Greek mathematics and extended it over an 800 year period from 400 1200 The large number of illustrations supports the text and contributes to a fine read Publisher **Flies in the Ointment** Mark Crislip, 2018-06-03 A carefully selected and edited compendium of the best of Dr Mark Crislip the Puswhisperer's blog posts from sciencebasedmedicine.org The sections have been edited for redundancy updated for 2017 and classified into themes Supplements and Complementary and Alternative Medicine SCAM can be classified many ways generally speaking alternative remedies are Possible mostly botanicals and herbal remedies There is nothing impossible that a given plant product will affect a given disease although often the provenance of a given herbal treatment is suspect Impossible the rest of CAM It will be equally impossible to cover every CAM practice so just a few are treated in depth The book is classified as follows What's the Harm A general discussion of why SCAM is bad for people animals and the environment Alt Facts Why Scientific Thinking is Hard A discussion of how and why our powers of logic are often powerless against SCAM Counting to Ten Statistics for the Rest of Us A somewhat technical section about statistical errors and fallacies and why interpreting the literature is difficult even for clinicians A must read for lovers of math Realm of the Possible A discussion of supplements including the evolution of my thinking on probiotics Rectum Damn Near Killed Em Probiotics and the Gut Microbiome Herbs and Supplements Eliminate the Impossible Impossible treatments their fallacies and risks Chiropractic Homeopathy Acupuncture Miscellaneous Quack Remedies Vaccines and Flu Woo The fallacies behind anti vaccination beliefs and why you should always get your flu shot **Musings of the Masters** Raymond Ayoub, 2004 The anthology is a collection of articles written by renowned mathematicians of the twentieth century

The articles span roughly a century in time and a wide range in subject They are by mathematicians acknowledged by their peers as outstanding creators whose work has added richly to the discipline

Gauss: Titan of Science Waldo Dunnington,Jeremy Gray,2020-08-03

Carl Friedrich Gauss G. Waldo Dunnington,Jeremy Gray,Fritz-Egbert Dohse,2004-10-14 Classic biography of Gauss updated with new introduction bibliography and new material

Calculus and Its Origins David Perkins,2012-04-12 Calculus answers questions that had been explored for centuries before calculus was born Calculus and Its Origins begins with these ancient questions and details the remarkable story of how subsequent scholars wove these inquiries into a unified theory This book does not presuppose knowledge of calculus it requires only a basic knowledge of geometry and algebra similar triangles polynomials factoring Inside you will find the accounts of how Archimedes discovered the area of a parabolic segment ibn Al Haytham calculated the volume of a revolved area Jyesthadeva explained the infinite series for sine and cosine Wallis deduced the link between hyperbolas and logarithms Newton generalized the binomial theorem Leibniz discovered integration by parts and much more Each chapter ends with further results in the form of exercises by such luminaries as Pascal Maclaurin Barrow Cauchy and Euler

Mathematicians on Creativity Peter Borwein,Peter Liljedahl,Helen Zhai,2018-09-06 This book aims to shine a light on some of the issues of mathematical creativity It is neither a philosophical treatise nor the presentation of experimental results but a compilation of reflections from top caliber working mathematicians In their own words they discuss the art and practice of their work This approach highlights creative components of the field illustrates the dramatic variation by individual and hopes to express the vibrancy of creative minds at work Mathematicians on Creativity is meant for a general audience and is probably best read by browsing

Illustrated Special Relativity through Its Paradoxes: A Fusion of Linear Algebra, Graphics, and Reality John dePillis,Jose Wudka,2013-12-31 Assuming a minimum of technical expertise beyond basic matrix theory the authors introduce inertial frames and Minkowski diagrams to explain the nature of simultaneity why faster than light travel is impossible and the proper way to add velocities We resolve the twin paradox the train in tunnel paradox the pra shooter paradox along with the lesser known bug rivet paradox that shows how rigidity is incompatible with special relativity Since Einstein in his seminal 1905 paper introducing special relativity acknowledged his debt to Clerk Maxwell we fully develop Maxwell s four equations that unify the theories of electricity optics and magnetism These equations also lead to a simple calculation for the frame independent speed of electromagnetic waves in a vacuum Cover

A Mathematician Comes of Age Steven G. Krantz,2012-03 This book is about the concept of mathematical maturity Mathematical maturity is central to a mathematics education The goal of a mathematics education is to transform the student from someone who treats mathematical ideas empirically and intuitively to someone who treats mathematical ideas analytically and can control and manipulate them effectively Put more directly a mathematically mature person is one who can read analyze and evaluate proofs And most significantly he she is one who can create proofs For this is what modern mathematics is all about coming up with new ideas

and validating them with proofs The book provides background data and analysis for understanding the concept of mathematical maturity It turns the idea of mathematical maturity from a topic for coffee room conversation to a topic for analysis and serious consideration

Sophie's Diary Dora Musielak, 2022-08-11 Sophie Germain overcame gender stigmas and a lack of formal education to prove that for all prime exponents less than 100 Case I of Fermat's Last Theorem holds Hidden behind a man's name her brilliance as mathematician was first discovered by three of the greatest scholars of the eighteenth century Lagrange Gauss and Legendre In Sophie's Diary Germain comes to life through a fictionalized journal that intertwines mathematics with historical descriptions of the brutal events that took place in Paris between 1789 and 1793 This format provides a plausible perspective of how a young Sophie could have learned mathematics on her own both fascinated by numbers and eager to master tough subjects without a teacher's guidance Her passion for mathematics is integrated into her personal life as an escape from societal outrage Sophie's Diary is suitable for a variety of readers both young and old mathematicians and novices who will be inspired and enlightened on a field of study made easy as told through the intellectual and personal struggles of an exceptional young woman

In the Dark on the Sunny Side Lawrence W. Baggett, 2012-12-06 Misfortune struck one June day in 1944 when a five year old boy was blinded following an accident with a paring knife That boy Larry W Baggett grew up to become an internationally renowned research mathematician and a successful university professor At every stage in his life Baggett broke new ground he was the first blind student enrolled in the Orlando public school system the first blind student admitted to Davidson College and the first blind doctoral student in mathematics at the University of Washington This memoir describes his successes and failures as a blind person living and learning in the sighted world In addition he reflects on his two great passions in life mathematics and music with short musings on both topics such as discussing how to figure out how many dominoes are in a set the intricacies of jazz chord progressions and the mysterious Comma of Pythagoras

The Magic Numbers of the Professor Owen O'Shea, Underwood Dudley, 2007-03-08 Numerical curiosities ranging from coincidences and the first moon walk to proposition bets involving dice and cards

Mathematical Evolutions Abe Shenitzer, John Stillwell, 2020-08-03 *Numerical Methods that Work* Forman S. Acton, 1990 A commonsense approach to numerical algorithms for the solution of equations

The Changing Shape of Geometry Mathematical Association of America, 2003-01-09 Collection of popular articles on geometry from distinguished mathematicians and educationalists

Remarkable Mathematicians Ioan James, 2003-02-06 Ioan James introduces and profiles sixty mathematicians from the era when mathematics was freed from its classical origins to develop into its modern form The subjects all born between 1700 and 1910 come from a wide range of countries and all made important contributions to mathematics through their ideas their teaching and their influence James emphasizes their varied life stories not the details of their mathematical achievements The book is organized chronologically into ten chapters each of which contains biographical sketches of six mathematicians The men and women James has chosen to portray are

representative of the history of mathematics such that their stories when read in sequence convey in human terms something of the way in which mathematics developed Ioan James is a professor at the Mathematical Institute University of Oxford He is the author of Topological Topics Cambridge 1983 Fibrewise Topology Cambridge 1989 Introduction to Uniform Spaces Cambridge 1990 Topological and Uniform Spaces Springer Verlag New York 1999 and co author with Michael C Crabb of Fibrewise Homotopy Theory Springer Verlag New York 1998 James is the former editor of the London Mathematical Society Lecture Note Series and volume editor of numerous books He is the organizer of the Oxford Series of Topology symposia and other conferences and co chairman of the Task Force for Mathematical Sciences of Campaign for Oxford

Mathematical Cranks: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the fascinating narratives that have charmed audiences this year. Mathematical Cranks : Colleen Hoover's "It Ends with Us" This poignant tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This spellbinding historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids absorbing storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens spins a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These top-selling novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of engaging stories waiting to be discovered. The novel begins with Richard Papen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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