

Timothy Gowers

# MATHEMATICS

A Very Short Introduction

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# Mathematics A Very Short Introduction

**Tom Sorell**

## **Mathematics A Very Short Introduction:**

**Mathematics: A Very Short Introduction** Timothy Gowers, 2002-08-22 This book aims to explain in clear non technical language what it is that mathematicians do and how that differs from and builds on the mathematics that most people are familiar with from school It is the ideal introduction for anyone who wishes to deepen their understanding of mathematics

*Applied Mathematics* Alain Goriely, 2018-02-13 Mathematics is playing an increasing important role in society and the sciences enhancing our ability to use models and handle data While pure mathematics is mostly interested in abstract structures applied mathematics sits at the interface between this abstract world and the world in which we live This area of mathematics takes its nourishment from society and science and in turn provides a unified way to understand problems arising in diverse fields This Very Short Introduction presents a compact yet comprehensive view of the field of applied mathematics and explores its relationships with pure mathematics science and engineering Explaining the nature of applied mathematics Alain Goriely discusses its early achievements in physics and engineering and its development as a separate field after World War II Using historical examples current applications and challenges Goriely illustrates the particular role that mathematics plays in the modern sciences today and its far reaching potential

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## **Algebra: A Very Short Introduction**

Peter M. Higgins, 2015-10-22 Algebra marked the beginning of modern mathematics moving it beyond arithmetic which involves calculations featuring given numbers to problems where some quantities are unknown Now it stands as a pillar of mathematics underpinning the quantitative sciences both social and physical This Very Short Introduction explains algebra from scratch Over the course of ten logical chapters Higgins offers a step by step approach for readers keen on developing their understanding of algebra Using theory and example he renews the reader's acquaintance with school mathematics before taking them progressively further and deeper into the subject

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## *The History of Mathematics* Jacqueline

Stedall, 2012-02-23 Mathematics is a fundamental human activity that can be practised and understood in a multitude of ways indeed mathematical ideas themselves are far from being fixed but are adapted and changed by their passage across periods and cultures In this Very Short Introduction Jacqueline Stedall explores the rich historical and cultural diversity of mathematical endeavour from the distant past to the present day Arranged thematically to exemplify the varied contexts in which people have learned used and handed on mathematics she also includes illustrative case studies drawn from a range of

times and places including early imperial China the medieval Islamic world and nineteenth century Britain ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

Number Theory Robin Wilson,2020-05-28 Number theory is the branch of mathematics that is primarily concerned with the counting numbers Of particular importance are the prime numbers the building blocks of our number system The subject is an old one dating back over two millennia to the ancient Greeks and for many years has been studied for its intrinsic beauty and elegance not least because several of its challenges are so easy to state that everyone can understand them and yet no one has ever been able to resolve them But number theory has also recently become of great practical importance in the area of cryptography where the security of your credit card and indeed of the nation's defence depends on a result concerning prime numbers that dates back to the 18th century Recent years have witnessed other spectacular developments such as Andrew Wiles's proof of Fermat's last theorem unproved for over 250 years and some exciting work on prime numbers In this Very Short Introduction Robin Wilson introduces the main areas of classical number theory both ancient and modern Drawing on the work of many of the greatest mathematicians of the past such as Euclid Fermat Euler and Gauss he situates some of the most interesting and creative problems in the area in their historical context

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**Mathematics** Timothy Gowers,2002

Review Mathematics is a subject we are all exposed to in our daily lives but one which many of us fear In this introduction Timothy Gowers elucidates the most fundamental differences which are primarily philosophical between advanced mathematics and what we learn at school so that one emerges with a clearer understanding of such paradoxical sounding concepts as infinity curved space and imaginary numbers From basic ideas through to philosophical queries to common sociological questions about the mathematical community this book unravels some of the mysteries of space and numbers

BOOK JACKET Mathematics Timothy Gowers,2002 The aim of this volume is to explain the differences between research level mathematics and the maths taught at school Most differences are philosophical and the first few chapters are about general aspects of mathematical thought

**Symmetry** Ian Stewart,2013-05-30 In the 1800s mathematicians introduced a formal theory of symmetry group theory Now a branch of abstract algebra this subject first arose in the theory of equations Symmetry is an immensely important concept in mathematics and throughout the sciences and its applications range across the entire subject Symmetry governs the structure of crystals innumerable types of pattern formation how systems change their state as parameters vary and fundamental physics is governed by symmetries in the laws of nature It is highly visual

with applications that include animal markings locomotion evolutionary biology elastic buckling waves the shape of the Earth and the form of galaxies In this Very Short Introduction Ian Stewart demonstrates its deep implications and shows how it plays a major role in the current search to unify relativity and quantum theory **ABOUT THE SERIES** The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

### **Trigonometry: A Very Short**

**Introduction** Glen Van Brummelen,2020-01-23 Born of the desire to understand the workings of motions of the heavenly bodies trigonometry gave the ancient Greeks the ability to predict their futures Most of what we see of the subject in school comes from these heavenly origins 15th century astronomer Regiomontanus called it the foot of the ladder to the stars In this Very Short Introduction Glen Van Brummelen shows how trigonometry connects mathematics to science and has today become an indispensable tool in predicting cyclic patterns like animal populations and ocean tides Its historical journey through major cultures such as medieval India and the Islamic World has taken it through disciplines such as geography and even religious practice Trigonometry has also been a major player in the most startling mathematical developments of the modern world Its interactions with the concept of infinity led to Taylor and Fourier series some of the most practical tools of modern science The birth of complex numbers led to a shocking union of exponential and trigonometric functions creating the most beautiful formulas and powerful modelling tools in science Finally as Van Brummelen shows trigonometry allows us to explore the strange new worlds of non Euclidean geometries opening up bizarre possibilities for the shape of space itself And indeed one of those new geometries spherical takes us full circle back to ancient Greek astronomers and European navigators who first used it to chart their ways across the heavens and the earth **ABOUT THE SERIES** The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

### **Infinity: A Very Short Introduction** Ian

Stewart,2017-03-16 Infinity is an intriguing topic with connections to religion philosophy metaphysics logic and physics as well as mathematics Its history goes back to ancient times with especially important contributions from Euclid Aristotle Eudoxus and Archimedes The infinitely large infinite is intimately related to the infinitely small infinitesimal Cosmologists consider sweeping questions about whether space and time are infinite Philosophers and mathematicians ranging from Zeno to Russell have posed numerous paradoxes about infinity and infinitesimals Many vital areas of mathematics rest upon some version of infinity The most obvious and the first context in which major new techniques depended on formulating infinite processes is calculus But there are many others for example Fourier analysis and fractals In this Very Short Introduction Ian Stewart discusses infinity in mathematics while also drawing in the various other aspects of infinity and explaining some of

the major problems and insights arising from this concept He argues that working with infinity is not just an abstract intellectual exercise but that it is instead a concept with important practical everyday applications and considers how mathematicians use infinity and infinitesimals to answer questions or supply techniques that do not appear to involve the infinite

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**Mathematical Finance: A Very Short Introduction** Mark H. A. Davis, 2019-01-17 In recent years the finance industry has mushroomed to become an important part of modern economies and many science and engineering graduates have joined the industry as quantitative analysts with mathematical and computational skills that are needed to solve complex problems of asset valuation and risk management An important parallel story exists of scientific endeavour Between 1965 1995 insightful ideas in economics about asset valuation were turned into a mathematical theory of arbitrage an enterprise whose first achievement was the famous 1973 Black Scholes formula followed by extensive investigations using all the resources of modern analysis and probability The growth of the finance industry proceeded hand in hand with these developments Now new challenges arise to deal with the fallout from the 2008 financial crisis and to take advantage of new technology which has revolutionized the practice of trading This Very Short Introduction introduces readers with no previous background in this area to arbitrage theory and why it works the way it does Illuminating pricing theory Mark Davis explains its applications to interest rates credit trading fund management and risk management He concludes with a survey of the most pressing issues in mathematical finance today

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**Measurement** David J. Hand, 2016-09-29 Measurement is a fundamental concept that underpins almost every aspect of the modern world It is central to the sciences social sciences medicine and economics but it affects everyday life We measure everything from the distance of far off galaxies to the temperature of the air levels of risk political majorities taxes blood pressure IQ and weight The history of measurement goes back to the ancient world and its story has been one of gradual standardization Today there are different types of measurement levels of accuracy and systems of units applied in different contexts Measurement involves notions of variability accuracy reliability and error and challenges such as the measurement of extreme values In

this Very Short Introduction David Hand explains the common mathematical framework underlying all measurement the main approaches to measurement and the challenges involved Following a brief historical account of measurement he discusses measurement as used in the physical sciences and engineering the life sciences and medicine the social and behavioural sciences economics business and public policy **ABOUT THE SERIES** The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

**Probability** John Haigh, 2012-04-26 Making good decisions

under conditions of uncertainty which is the norm requires a sound appreciation of the way random chance works As analysis and modelling of most aspects of the world and all measurement are necessarily imprecise and involve uncertainties of varying degrees the understanding and management of probabilities is central to much work in the sciences and economics In this Very Short Introduction John Haigh introduces the ideas of probability and different philosophical approaches to probability and gives a brief account of the history of development of probability theory from Galileo and Pascal to Bayes Laplace Poisson and Markov He describes the basic probability distributions and goes on to discuss a wide range of applications in science economics and a variety of other contexts such as games and betting He concludes with an intriguing discussion of coincidences and some curious paradoxes **ABOUT THE SERIES** The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

**Logic: A Very Short Introduction** Graham Priest, 2017-10-19

Logic is often perceived as having little to do with the rest of philosophy and even less to do with real life In this lively and accessible introduction Graham Priest shows how wrong this conception is He explores the philosophical roots of the subject explaining how modern formal logic deals with issues ranging from the existence of God and the reality of time to paradoxes of probability and decision theory Along the way the basics of formal logic are explained in simple non technical terms showing that logic is a powerful and exciting part of modern philosophy In this new edition Graham Priest expands his discussion to cover the subjects of algorithms and axioms and proofs in mathematics **ABOUT THE SERIES** The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

**Chaos** Leonard Smith, 2007-02-22

Chaos exists in systems all around us Even the simplest system of cause and effect can be subject to chaos denying us accurate predictions of its behaviour and sometimes giving rise to astonishing structures of large scale order Our growing understanding of Chaos Theory is having fascinating applications in the real world from technology to global warming

politics human behaviour and even gambling on the stock market Leonard Smith shows that we all have an intuitive understanding of chaotic systems He uses accessible maths and physics replacing complex equations with simple examples like pendulums railway lines and tossing coins to explain the theory and points to numerous examples in philosophy and literature Edgar Allan Poe Chang Tzu Arthur Conan Doyle that illuminate the problems The beauty of fractal patterns and their relation to chaos as well as the history of chaos and its uses in the real world and implications for the philosophy of science are all discussed in this Very Short Introduction ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable [Topology: A Very Short Introduction](#) Richard Earl, 2019-12-12

How is a subway map different from other maps What makes a knot knotted What makes the M bius strip one sided These are questions of topology the mathematical study of properties preserved by twisting or stretching objects In the 20th century topology became as broad and fundamental as algebra and geometry with important implications for science especially physics In this Very Short Introduction Richard Earl gives a sense of the more visual elements of topology looking at surfaces as well as covering the formal definition of continuity Considering some of the eye opening examples that led mathematicians to recognize a need for studying topology he pays homage to the historical people problems and surprises that have propelled the growth of this field ABOUT THE SERIES The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable [Information](#) Luciano Floridi, 2010-02-25

We live an information soaked existence information pours into our lives through television radio books and of course the Internet Some say we suffer from infoglut But what is information The concept of information is a profound one rooted in mathematics central to whole branches of science yet with implications on every aspect of our everyday lives DNA provides the information to create us we learn through the information fed to us we relate to each other through information transfer gossip lectures reading Information is not only a mathematically powerful concept but its critical role in society raises wider ethical issues who owns information Who controls its dissemination Who has access to information Luciano Floridi a philosopher of information cuts across many subjects from a brief look at the mathematical roots of information its definition and measurement in bits to its role in genetics we are information and its social meaning and value He ends by considering the ethics of information including issues of ownership privacy and accessibility copyright and open source For those unfamiliar with its precise meaning and wide applicability as a philosophical concept information may seem a bland or mundane topic Those who have studied some science or philosophy or sociology will already be aware of its centrality and richness But for all readers whether from the

humanities or sciences Floridi gives a fascinating and inspirational introduction to this most fundamental of ideas **ABOUT THE SERIES** The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable **Basics Box** Oxford,2006-11 Books that are perfect to pop in your pocket now packaged to make the ideal gift Five of the best selling introductory books from the highly acclaimed Very Short Introductions series packaged in a stylish case to make the ideal gift or way in to five of the most important subjects This boxed set gives a great introduction to five key subjects politics mathematics philosophy psychology and history **Philosophy A Very Short Introduction** by Edward CraigISBN 10 0 19 285421 6 ISBN 13 978 0 19 285421 6 **The Very Short Introduction to Philosophy** shows that philosophy really can be fascinating broad minded and full of surprise As a means of stimulating interest in the subject it has few rivals Julian Baggini **The Philosopher s Magazine****Mathematics A Very Short Introduction** by Timothy GowersISBN 10 0 19 285361 9 ISBN 13 978 0 19 285361 5 a marvellously lucid guide to the beauty and mystery of numbers Gilbert AdairThis book explains carefully but not technically the differences between advanced research level mathematics and the sort of mathematics we learn at school The most fundamental differences are philosophical and readers of this book will emerge with a clearer understanding of paradoxical sounding concepts such as infinity curved space and imaginary numbers **History A Very Short Introduction** by John ArnoldISBN 10 0 19 285352 X ISBN 13 978 0 19 285352 3The book begins by inviting us to think about various questions provoked by our investigation of history and explores the ways these questions have been answered in the past Concepts such as causation interpretation and periodization are introduced by means of concrete examples of how historians work to give a sense of the excitement of discovering not only the past but also ourselves **Politics A Very Short Introduction** by Kenneth Minogue ISBN 10 0 19 285388 0 ISBN 13 978 0 19 285388 2In this provocative but balanced essay Kenneth Minogue discusses the development of politics from the ancient world to the twentieth century He prompts us to consider why political systems evolve how politics offers both power and order in our society whether democracy is always a good thing and what future politics may have in the twenty first century **Psychology A Very Short Introduction** by Gilian Butler and Freda McManusISBN 10 0 19 285381 3 ISBN 13 978 0 19 285381 3Psychology is part of everyone s experience it influences the way we think about everything from education and intelligence to relationships and emotions advertising and criminality But what exactly are psychologists trying to do This book provides an understanding of some of psychology sleading ideas and their practical relevance making it a stimulating introduction for anyone interested in understanding the human mind

**Descartes** Tom Sorell,2000-10-12 Ren Descartes 1596 1650 had a remarkably short working life and his output was small yet his contributions to philosophy and science have endured to the present day He is perhaps best known for his statement **Cogito ergo sum** By a mixture of intuition and deduction Descartes derived from the cogito principle first the existence of a

material world But Descartes did not intend the metaphysics to stand apart from his scientific work which included important investigations into physics mathematics psychology and optics In this book Tom Sorrell shows that Descartes was above all an advocate and practitioner of a new mathematical approach to physics and that he developed his metaphysics to support his programme in the sciences **ABOUT THE SERIES** The Very Short Introductions series from Oxford University Press contains hundreds of titles in almost every subject area These pocket sized books are the perfect way to get ahead in a new subject quickly Our expert authors combine facts analysis perspective new ideas and enthusiasm to make interesting and challenging topics highly readable

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