

What Is Mathematics? An Elementary Approach to Ideas and Methods

Reviewed by Brian E. Blank

What Is Mathematics? An Elementary Approach to Ideas and Methods

Richard Courant and Herbert Robbins

Second edition, revised by Ian Stewart

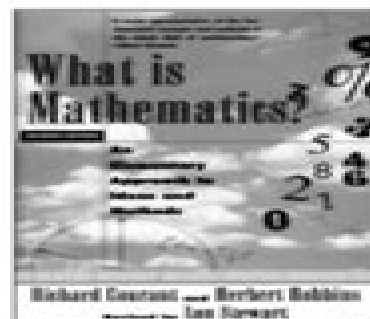
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Thirty-two years ago while browsing in my high school library, I happened upon an intriguingly titled expository book. I knew astonishingly little of the practice of mathematics at the time. I was aware that geometry derived from Thales, Pythagoras, and Euclid. Whether or not any geometric theorems were discovered after Euclid I could not say. That algebra and trigonometry were the results of conscious development would no more have occurred to me than the idea that the English language was the creation of dedicated professional linguists. I knew the names and work of many scientists—Copernicus, Kepler, and Galileo in astronomy; Darwin, Mendel, and Pasteur in biology; Boyle, Lavoisier, and Curie in chemistry; Archimedes, Newton, and Einstein in physics; Jenner, Harvey, and Koch in medicine; and many others, none of whom were mathematicians. Although my recreational reading of Hall and Knight had exposed me to an odd assortment of surnames, such as Venn and Horner, I knew of no first-rate scientist in the field of mathematics. Indeed, I did not really know that there was such a field.

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had a more pressing need. For less than nine dollars *What Is Mathematics?* by Richard Courant and Herbert Robbins became the first volume in my collection of mathematics books.

Only a sketchy summary of this well-known text need be given here. The first chapter is largely devoted to number theory. A chapter on real and complex numbers follows. The discussion includes Dedekind cuts, Cantor's theory of cardinal numbers, and Liouville's construction of transcendental numbers. The third chapter is concerned with field extensions and geometric constructions. It includes a thorough investigation of the impossible straight-edge-and-compass constructions of classical Greek geometry (stopping short of a proof of Lindemann's Theorem). Chapters on projective geometry and topology come next. In preparation for the remainder of the book, Courant and Robbins continue

The book I pulled off the shelf that day did more than open my eyes; it changed my life. I graduated from high school later that year, armed with a twenty-dollar book certificate. It might have been prudent to save my award for the college textbooks that I would soon require. However, with no further access to my school library, I

What Is Mathematics An Elementary Approach To Ideas And Methods

E Durkheim



What Is Mathematics An Elementary Approach To Ideas And Methods:

What is Mathematics? Richard Courant, Herbert Robbins, 1996 The teaching and learning of mathematics has degenerated into the realm of rote memorization the outcome of which leads to satisfactory formal ability but not real understanding or greater intellectual independence The new edition of this classic work seeks to address this problem Its goal is to put the meaning back into mathematics Lucid easily understandable Albert Einstein 301 linecuts **What is Mathematics? An Elementary Approach to Ideas and Methods, by Richard Courant and Herbert Robbins** Richard Courant, 1956 *What is Mathematics? An Elementary Approach to Ideas and Methods*, 1943 *What is Mathematics? An Elementary Approach to Ideas and Methods* Richard Courant, 1941 *What is Mathematics?* Richard Courant, Herbert Robbins, 1953 **What is mathematics?: an elementary approach to ideas and methods** R. Courant, 1941 What is Mathematics? an Elementary Approach to Ideas and Methods Richard Courant, Herbert Robbins, 1956 What is Mathematics? Richard Courant, 1943 Handbuch der Mathematikdidaktik Regina Bruder, Andreas Büchter, Hedwig Gasteiger, Barbara Schmidt-Thieme, Hans-Georg Weigand, 2023-09-04 Dieses Handbuch gibt einen aktuellen Überblick über Forschungsgebiete der Mathematikdidaktik In 26 Kapiteln stellen führende Vertreterinnen und Vertreter der Disziplin Diskussionsstände zu Mathematik als Bildungsgegenstand als Lehr- und Lerninhalt als Denkprozess sowie zu Mathematik im Unterrichtsprozess und zur Mathematikdidaktik als Forschungsdisziplin dar Seit der 1. Auflage des Handbuchs im Jahr 2015 hat sich die Forschung auf allen dargestellten Gebieten so weiterentwickelt, dass eine gründliche Bearbeitung und Erweiterung erforderlich wurde An der 2. Auflage haben zahlreiche neue Autorinnen und Autoren mitgewirkt einzelne Kapitel wurden ergänzt Themengebiete der Primarstufe finden nun eine größere Beachtung und es wurde stärker auf historische bzw. fachliche und fachdidaktische Entwicklungen aus einer Metaperspektive eingegangen Das Handbuch wurde geschrieben für im Studium fortgeschrittene Studierende als eine grundlegende und einführende Lektüre für ein Referat, eine Hausarbeit oder eine Abschlussarbeit in der Mathematikdidaktik für Masterstudierende und angehende Promovierende zu Beginn einer eigenen Forschungsarbeit in der Mathematikdidaktik für Lehrerinnen und Lehrer zum Kennenlernen forschungsbasierter Fragestellungen in der Mathematikdidaktik sowie als Grundlage für theoriegeleitete Reflexionen über eigenen oder fremden Unterricht für Mathematikdidaktikerinnen und didaktiker, die sich einen Überblick über zentrale Themen und derzeit aktuelle Forschungsfragen in verschiedenen Teilbereichen ihrer Disziplin verschaffen möchten **What is Mathematics?** Richard Courant, Herbert E. Robbins, 1947 **What is Mathematics?** Richard Courant, Herbert Robbins, 1941

Gesellschaftliche Funktionen des Mathematikunterrichts David Kollosche, 2014-09-23 David Kollosche geht der Frage nach, worin der gesellschaftliche Beitrag von gegenwärtigem Mathematikunterricht an deutschen Sekundarschulen besteht Den normativen Vorgaben der mathematikdidaktischen Bildungstheorie begegnet er skeptisch schlägt stattdessen ein kritisch soziologisches Vorgehen auf der Grundlage der Theorien von Michel Foucault vor und präsentiert auf diese Weise

neue Perspektiven und Antworten Im Hauptteil widmet er sich gesellschaftlichen Dimensionen der Mathematik und nimmt Logik und Zeichenrechnung n her in den Blick Der Autor legt dar wie Mathematikunterricht als gesellschaftliches Ph nomen mit unserer Kultur verbunden ist hinterfragt auch die ihm zugrunde liegenden Theorien und Werte und zeigt wie Heranwachsende zum Funktionieren in einer mathematisch gesteuerten Gesellschaft erzogen werden *Ontologie der Selbstbestimmung* Christian Georg Martin,2012 English summary Hegel conceived his Science of Logic as a theory of pure thinking as well as a successor discipline to traditional metaphysics Christian Georg Martin offers an argumentative reconstruction of the whole work reading it as a critical ontology namely as the attempt to abstract from all presuppositions and to immanently unfold conceptual determinations characterizing what necessarily belongs to there being anything at all The reconstruction culminates in the conception of a physically chemically and biologically characterizable continuum being necessarily transformed by embodied subjects into a common significant world in which freedom has concrete reality German description Hegel versteht seine Wissenschaft der Logik zugleich als Theorie reinen Denkens und als kritische Nachfolgedisziplin zur überkommenen Metaphysik Christian Georg Martin legt eine argumentative Gesamtrekonstruktion von Hegels Hauptwerk vor und deutet dieses als kritische Ontologie als eine nach Ausserkraftsetzung aller dogmatischen Vorannahmen rein im Denken vollzogene Entfaltung begrifflicher Bestimmungen die ausdrücken was dazu dass überhaupt etwas ist notwendig gehört Der systematische Ertrag seiner Arbeit besteht im Nachweis dass dazu dass überhaupt etwas ist ein physikalisch chemisch und biologisch charakterisierbares Naturkontinuum gehört in dem leibhaftige Selbstbestimmungszentren Personen hervortreten welche dieses Kontinuum zu einer gemeinsamen bedeutsamen Welt gestalten in der Freiheit konkrete Realität hat What Is Mathematics? the late Richard Courant,Herbert Robbins,1996-07-18 For more than two thousand years a familiarity with mathematics has been regarded as an indispensable part of the intellectual equipment of every cultured person Today unfortunately the traditional place of mathematics in education is in grave danger The teaching and learning of mathematics has degenerated into the realm of rote memorization the outcome of which leads to satisfactory formal ability but does not lead to real understanding or to greater intellectual independence This new edition of Richard Courant s and Herbert Robbins s classic work seeks to address this problem Its goal is to put the meaning back into mathematics Written for beginners and scholars for students and teachers for philosophers and engineers What is Mathematics Second Edition is a sparkling collection of mathematical gems that offers an entertaining and accessible portrait of the mathematical world Covering everything from natural numbers and the number system to geometrical constructions and projective geometry from topology and calculus to matters of principle and the Continuum Hypothesis this fascinating survey allows readers to delve into mathematics as an organic whole rather than an empty drill in problem solving With chapters largely independent of one another and sections that lead upward from basic to more advanced discussions readers can easily pick and choose areas of particular interest without impairing their

understanding of subsequent parts Brought up to date with a new chapter by Ian Stewart What is Mathematics Second Edition offers new insights into recent mathematical developments and describes proofs of the Four Color Theorem and Fermat's Last Theorem problems that were still open when Courant and Robbins wrote this masterpiece but ones that have since been solved Formal mathematics is like spelling and grammar a matter of the correct application of local rules Meaningful mathematics is like journalism it tells an interesting story But unlike some journalism the story has to be true The best mathematics is like literature it brings a story to life before your eyes and involves you in it intellectually and emotionally What is Mathematics is like a fine piece of literature it opens a window onto the world of mathematics for anyone interested to view

Enzyklopädie Philosophie und Wissenschaftstheorie Jürgen Mittelstraß, 2024-03-15 Die Enzyklopädie Philosophie und Wissenschaftstheorie das größte allgemeine Nachschlagewerk zur Philosophie im deutschsprachigen Raum wurde 1980 begonnen und 1996 mit dem vierten Band abgeschlossen Sie erschien 2005 bis 2018 in einer komplett aktualisierten und erweiterten 8. bändigen Neuauflage die hiermit nun in einer kartonierten Sonderausgabe vorliegt Die Enzyklopädie umfasst in Sach- und Personenartikeln nicht nur den klassischen Bestand des philosophischen Wissens sondern auch die neuere Entwicklung der Philosophie insbesondere in den Bereichen Logik Erkenntnis und Wissenschaftstheorie sowie Sprachphilosophie Zugleich finden Grundlagenreflexionen in den Wissenschaften und deren Geschichte ausführliche Berücksichtigung Die umfassenden Bibliographien und Werkverzeichnisse wurden für die 2. Auflage in allen Artikeln auf den neuesten Stand gebracht

Handbook of Cognitive Mathematics Marcel Danesi, 2022-10-31 Cognitive mathematics provides insights into how mathematics works inside the brain and how it is interconnected with other faculties through so called blending and other associative processes This handbook is the first large collection of various aspects of cognitive mathematics to be amassed into a single title covering decades of connection between mathematics and other figurative processes as they manifest themselves in language art and even algorithms It will be of use to anyone working in math cognition and education with each section of the handbook edited by an international leader in that field

MUS - Mathematimus - Hyperelliptical Geometry Stenio Musich, 2024-03-25 M U S Mathematical Uniform Space is a new number of pi representing the reality of the Universe in which we live With this number we created a new geometry Hyperelliptical Geometry which will provide the unification of physics thus uniting the Theory of Relativity and Quantum Theory A new geometry for a new Mathematics and a new Physics ISBN 978 65 00 98107 0

Vernunft, Kontingenz und Gott Philipp Stoellger, Ingolf U. Dalferth, 2000 English summary Contingency confounds reason If reason tries to reduce contingency it will come up against its limitations God on the other hand is more familiar with contingency since contingency originates with him If one thinks through the relationship between God and contingency reason will also discover its contingency Using modern approaches as examples the authors of this work investigate the history of this unsolved problem German description Kontingenz irritiert die Vernunft Versucht die Vernunft die Kontingenz zu reduzieren gerät sie an ihre

Grenzen Gott hingegen ist Kontingenz weniger fremd denn sie grundet in ihm so wie er sich in Schopfung und Inkarnation auf sie eingelassen hat. Durchdenkt man das Verhältnis von Gott und Kontingenz entdeckt auch die Vernunft ihre Kontingenz. Diese dreigliedrige Konstellation beginnt mit der Schopfung verdichtet sich im Kreuz und führt in die Arbeit an der Neukonstellation von Kontingenz Gott und Vernunft. An exemplarischen Positionen der Neuzeit gehen die Autoren dieser offenen Problemgeschichte nach indem sie in kritischer Auseinandersetzung mit der Vor- und Nachgeschichte von Leibniz religionsphilosophische und theologische Perspektiven zur zeitgenössischen Neukonstellation erarbeiten.

What is a Mathematical Concept? Elizabeth de Freitas, Nathalie Sinclair, Alf Coles, 2017-06-22. Leading thinkers in mathematics philosophy and education offer new insights into the fundamental question what is a mathematical concept. The Oxford Handbook of Philosophy of Mathematics and Logic Stewart Shapiro, 2005-02-10. Mathematics and logic have been central topics of concern since the dawn of philosophy. Since logic is the study of correct reasoning it is a fundamental branch of epistemology and a priority in any philosophical system. Philosophers have focused on mathematics as a case study for general philosophical issues and for its role in overall knowledge gathering. Today philosophy of mathematics and logic remain central disciplines in contemporary philosophy as evidenced by the regular appearance of articles on these topics in the best mainstream philosophical journals. In fact the last decade has seen an explosion of scholarly work in these areas. This volume covers these disciplines in a comprehensive and accessible manner giving the reader an overview of the major problems, positions and battle lines. The 26 contributed chapters are by established experts in the field and their articles contain both exposition and criticism as well as substantial development of their own positions. The essays which are substantially self-contained serve both to introduce the reader to the subject and to engage in it at its frontiers. Certain major positions are represented by two chapters, one supportive and one critical. The Oxford Handbook of Philosophy of Math and Logic is a ground breaking reference like no other in its field. It is a central resource to those wishing to learn about the philosophy of mathematics and the philosophy of logic or some aspect thereof and to those who actively engage in the discipline from advanced undergraduates to professional philosophers, mathematicians and historians.

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