

RICHARD L. TIESZEN

MATHEMATICAL INTUITION

*Phenomenology and
Mathematical Knowledge*



kluwer

the language of science

Mathematical Intuition

Emily Carson, Renate Huber



Mathematical Intuition:

Mathematical Intuition R.L. Tieszen, 1989-06-30 Intuition has perhaps been the least understood and the most abused term in philosophy. It is often the term used when one has no plausible explanation for the source of a given belief or opinion. According to some sceptics it is understood only in terms of what it is not and it is not any of the better understood means for acquiring knowledge. In mathematics the term has also unfortunately been used in this way. Thus intuition is sometimes portrayed as if it were the Third Eye something only mathematical mystics like Ramanujan possess. In mathematics the notion has also been used in a host of other senses by intuitive one might mean informal or non rigorous or visual or holistic or incomplete or perhaps even convincing in spite of lack of proof. My aim in this book is to sweep all of this aside to argue that there is a perfectly coherent philosophically respectable notion of mathematical intuition according to which intuition is a condition necessary for mathematical knowledge. I shall argue that mathematical intuition is not any special or mysterious kind of faculty and that it is possible to make progress in the philosophical analysis of this notion. This kind of undertaking has a precedent in the philosophy of Kant. While I shall be mostly developing ideas about intuition due to Edmund Husserl there will be a kind of Kantian argument underlying the entire book. Thinking About Equations Matt A. Bernstein, William A. Friedman, 2011-09-20 An accessible guide to developing intuition and skills for solving mathematical problems in the physical sciences and engineering. Equations play a central role in problem solving across various fields of study. Understanding what an equation means is an essential step toward forming an effective strategy to solve it and it also lays the foundation for a more successful and fulfilling work experience. Thinking About Equations provides an accessible guide to developing an intuitive understanding of mathematical methods and at the same time presents a number of practical mathematical tools for successfully solving problems that arise in engineering and the physical sciences. Equations form the basis for nearly all numerical solutions and the authors illustrate how a firm understanding of problem solving can lead to improved strategies for computational approaches. Eight succinct chapters provide thorough topical coverage including Approximation and estimation Isolating important variables Generalization and special cases Dimensional analysis and scaling Pictorial methods and graphical solutions Symmetry to simplify equations. Each chapter contains a general discussion that is integrated with worked out problems from various fields of study including physics engineering applied mathematics and physical chemistry. These examples illustrate the mathematical concepts and techniques that are frequently encountered when solving problems. To accelerate learning the worked example problems are grouped by the equation related concepts that they illustrate as opposed to subfields within science and mathematics as in conventional treatments. In addition each problem is accompanied by a comprehensive solution explanation and commentary and numerous exercises at the end of each chapter provide an opportunity to test comprehension. Requiring only a working knowledge of basic calculus and introductory physics Thinking About Equations is an excellent supplement for courses in engineering and the physical

sciences at the upper undergraduate and graduate levels It is also a valuable reference for researchers practitioners and educators in all branches of engineering physics chemistry biophysics and other related fields who encounter mathematical problems in their day to day work The Prehistory of Mathematical Structuralism Erich H. Reck, Georg Schiemer, 2020 This edited volume explores the previously underacknowledged pre history of mathematical structuralism showing that structuralism has deep roots in the history of modern mathematics The contributors explore this history along two distinct but interconnected dimensions First they reconsider the methodological contributions of major figures in the history of mathematics Second they re examine a range of philosophical reflections from mathematically inclined philosophers like Russell Carnap and Quine whose work led to profound conclusions about logical epistemological and metaphysical aspects of structuralism Naturalizing Logico-Mathematical Knowledge Sorin Bangu, 2018-02-01 This book is meant as a part of the larger contemporary philosophical project of naturalizing logico mathematical knowledge and addresses the key question that motivates most of the work in this field What is philosophically relevant about the nature of logico mathematical knowledge in recent research in psychology and cognitive science The question about this distinctive kind of knowledge is rooted in Plato's dialogues and virtually all major philosophers have expressed interest in it The essays in this collection tackle this important philosophical query from the perspective of the modern sciences of cognition namely cognitive psychology and neuroscience Naturalizing Logico Mathematical Knowledge contributes to consolidating a new emerging direction in the philosophy of mathematics which while keeping the traditional concerns of this sub discipline in sight aims to engage with them in a scientifically informed manner A subsequent aim is to signal the philosophers willingness to enter into a fruitful dialogue with the community of cognitive scientists and psychologists by examining their methods and interpretive strategies Intuition and the Axiomatic Method Emily Carson, Renate Huber, 2006-07-02 Following developments in modern geometry logic and physics many scientists and philosophers in the modern era considered Kant's theory of intuition to be obsolete But this only represents one side of the story concerning Kant intuition and twentieth century science Several prominent mathematicians and physicists were convinced that the formal tools of modern logic set theory and the axiomatic method are not sufficient for providing mathematics and physics with satisfactory foundations All of Hilbert G del Poincaré Weyl and Bohr thought that intuition was an indispensable element in describing the foundations of science They had very different reasons for thinking this and they had very different accounts of what they called intuition But they had in common that their views of mathematics and physics were significantly influenced by their readings of Kant In the present volume various views of intuition and the axiomatic method are explored beginning with Kant's own approach By way of these investigations we hope to understand better the rationale behind Kant's theory of intuition as well as to grasp many facets of the relations between theories of intuition and the axiomatic method dealing with both their strengths and limitations in short the volume covers logical and non logical historical and systematic issues in both mathematics and physics Rational

Intuition Lisa M. Osbeck, Barbara S. Held, 2014-08-25 Rational Intuition explores the concept of intuition as it relates to rationality through mediums of history philosophy cognitive science and psychology

Quantum Field Theory Abhishek Kumar, 2025-04-18 The relativistic quantum field theory of electrodynamics is quantum electrodynamics It describes the behavior of electrons and photons the fundamental particles of matter and light respectively in a unified way Quantum field theory itself combines classical field theory special relativity and quantum mechanics

Disciplinary Intuitions and the Design of Learning Environments Kenneth Y. T. Lim, 2014-10-19 As children we would have spilt glasses of milk dropped things and broken things As children therefore we would have developed intuitions about how the world works but we would not necessarily have been able to explain these workings It would only have been till we entered formal schooling that we would have learned codifications of canon within each respective discipline and consequently how to articulate the canon to explain the intuition The preceding example was from the natural sciences but one could just have easily taken an example from say the environmental sciences or from the social sciences Indeed much of this book does just that as it seeks to chart the territory of a new theory of learning around Disciplinary Intuitions Many of the chapters within draw frequent and explicit linkages to curriculum design from the premise of the need to go beyond addressing the conceptions of learners to seeking to understand the substrate upon which these conceptions are founded The argument is made that this substrate comprises the particular set of lived experiences of each learner and how because these lived experiences are as tacit as they are diverse designing curriculum around misconceptions and preconceptions alone would not lead to enduring understanding from first principles From this perspective Disciplinary Intuitions constitute an exciting field at the nexus of learning theories and curriculum design

Handbook of the History and Philosophy of Mathematical Practice Bharath Sriraman, 2024-04-26 The purpose of this unique handbook is to examine the transformation of the philosophy of mathematics from its origins in the history of mathematical practice to the present It aims to synthesize what is known and what has unfolded so far as well as to explore directions in which the study of the philosophy of mathematics as evident in increasingly diverse mathematical practices is headed Each section offers insights into the origins debates methodologies and newer perspectives that characterize the discipline today Contributions are written by scholars from mathematics history and philosophy as well as other disciplines that have contributed to the richness of perspectives abundant in the study of philosophy today who describe various mathematical practices throughout different time periods and contrast them with the development of philosophy Editorial Advisory Board Andrew Aberdein Florida Institute of Technology USA Jody Azzouni Tufts University USA Ot vio Bueno University of Miami USA William Byers Concordia University Canada Carlo Cellucci Sapienza University of Rome Italy Chandler Davis University of Toronto Canada 1926 2022 Paul Ernest University of Exeter UK Michele Friend George Washington University USA Reuben Hersch University of New Mexico USA 1927 2020 Kyeong Hwa Lee Seoul National University South Korea Yuri Manin Max Planck Institute for Mathematics Germany 1937 2023 Athanase

Papadopoulos University of Strasbourg France Ulf Persson Chalmers University of Technology Sweden John Stillwell University of San Francisco USA David Tall University of Warwick UK 1941 2024 This book with its exciting depth and breadth illuminates us about the history practice and the very language of our subject about the role of abstraction of proof and manners of proof about the interplay of fundamental intuitions about algebraic thought in contrast to geometric thought The richness of mathematics and the philosophy encompassing it is splendidly exhibited over the wide range of time these volumes cover from deep platonic and neoplatonic influences to the most current experimental approaches Enriched as well with vivid biographies and brilliant personal essays written by and about people who play an important role in our tradition this extraordinary collection of essays is fittingly dedicated to the memory of Chandler Davis Reuben Hersh and Yuri Manin Barry Mazur Gerhard Gade University Professor Harvard University This encyclopedic Handbook will be a treat for all those interested in the history and philosophy of mathematics Whether one is interested in individuals from Pythagoras through Newton and Leibniz to Grothendieck fields geometry algebra number theory logic probability analysis viewpoints from Platonism to Intuitionism or methods proof experiment computer assistance the reader will find a multitude of chapters that inform and fascinate John Stillwell Emeritus Professor of Mathematics University of San Francisco Recipient of the 2005 Chauvenet Prize Dedicating a volume to the memory of three mathematicians Chandler Davis Reuben Hersh and Yuri Manin who went out of their way to show to a broader audience that mathematics is more than what they might think is an excellent initiative Gathering authors coming from many different backgrounds but who are very strict about the essays they write was successfully achieved by the editor in chief The result a great source of potential inspiration Jean Pierre Bourguignon Nicolaas Kuiper Honorary Professor at the Institut des Hautes études Scientifiques The Nature of Mathematical Knowledge Philip Kitcher, 1984 This book argues against the view that mathematical knowledge is a priori contending that mathematics is an empirical science and develops historically just as natural sciences do Kitcher presents a complete systematic and richly detailed account of the nature of mathematical knowledge and its historical development focusing on such neglected issues as how and why mathematical language changes why certain questions assume overriding importance and how standards of proof are modified

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