

RICHARD L. TIESZEN

# MATHEMATICAL INTUITION

*Phenomenology and  
Mathematical Knowledge*



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the language of science

# Mathematical Intuition

**Robert Hanna**



## **Mathematical Intuition:**

**Mathematical Intuition** R.L. Tieszen, 2012-12-06 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. 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 **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 **The Mathematical Heritage of Henri**

**Poincare** Felix E. Browder, 1983-12-31 On April 7 10 1980 the American Mathematical Society sponsored a Symposium on the Mathematical Heritage of Henri Poincaré held at Indiana University Bloomington Indiana This volume presents the written versions of all but three of the invited talks presented at this Symposium those by W Browder A Jaffe and J Mather were not written up for publication In addition it contains two papers by invited speakers who were not able to attend S S Chern and L Nirenberg If one traces the influence of Poincaré through the major mathematical figures of the early and midtwentieth century it is through American mathematicians as well as French that this influence flows through G D Birkhoff Solomon Lefschetz and Marston Morse This continuing tradition represents one of the major strands of American as well as world mathematics and it is as a testimony to this tradition as an opening to the future creativity of mathematics that this volume is dedicated This part contains sections on topological methods in nonlinear problems mechanics and dynamical systems ergodic theory and recurrence and historical material *Essays on Mathematical Reasoning* Jerzy

Pogonowski, 2021-01-27 This volume contains four essays which may attract the attention of those readers who are interested in mathematical cognition The main issues and questions addressed include How do we achieve understanding of mathematical notions and ideas What benefits can be obtained from mistakes of great mathematicians Which mathematical objects are standard and which are pathological Is it possible characterize the intended models of mathematical theories in a

unique way      *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      **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      *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 Poincar 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      **Cognition, Content, and the a Priori** Robert Hanna, 2015 Robert Hanna works

out a unified contemporary Kantian theory of rational human cognition and knowledge which develops new lines of thought in philosophy of perception Along the way he provides original accounts of intentionality sense perception and perceptual knowledge the analytic synthetic distinction the nature of logic and the a priori

**Autonomy Platonism and the Indispensability Argument** Russell Marcus, 2015-06-11 Mathematical platonism is the view that mathematical statements are true of real mathematical objects like numbers shapes and sets One central problem with platonism is that numbers shapes sets and the like are not perceivable by our senses In contemporary philosophy the most common defense of platonism uses what is known as the indispensability argument According to the indispensabilist we can know about mathematics because mathematics is essential to science Platonism is among the most persistent philosophical views Our mathematical beliefs are among our most entrenched They have survived the demise of millennia of failed scientific theories Once established mathematical theories are rarely rejected and never for reasons of their inapplicability to empirical science

**Autonomy Platonism and the Indispensability Argument** is a defense of an alternative to indispensability platonism The autonomy platonist believes that mathematics is independent of empirical science there is purely mathematical evidence for purely mathematical theories which are even more compelling to believe than empirical science Russell Marcus begins by contrasting autonomy platonism and indispensability platonism He then argues against a variety of indispensability arguments in the first half of the book In the latter half he defends a new approach to a traditional platonistic view one which includes appeals to a priori but fallible methods of belief acquisition including mathematical intuition and a natural adoption of ordinary mathematical methods In the end Marcus defends his intuition based autonomy platonism against charges that the autonomy of mathematics is viciously circular This book will be useful to researchers graduate students and advanced undergraduates with interests in the philosophy of mathematics or in the connection between science and mathematics

**Phenomenology and Mathematics** Michael Roubach, 2023-12-06 This Element explores the relationship between phenomenology and mathematics Its focus is the mathematical thought of Edmund Husserl founder of phenomenology but other phenomenologists and phenomenologically oriented mathematicians including Weyl Becker G del and Rota are also discussed After outlining the basic notions of Husserl's phenomenology the author traces Husserl's journey from his early mathematical studies Phenomenology's core concepts such as intention and intuition each contributed to the emergence of a phenomenological approach to mathematics This Element examines the phenomenological conceptions of natural number the continuum geometry formal systems and the applicability of mathematics It also situates the phenomenological approach in relation to other schools in the philosophy of mathematics logicism formalism intuitionism Platonism the French epistemological school and the philosophy of mathematical practice

**Philosophy of Mathematics** Øystein Linnebo, 2020-03-24 A sophisticated original introduction to the philosophy of mathematics from one of its leading thinkers Mathematics is a model of precision and objectivity but it appears distinct from the empirical sciences because it seems to

deliver nonexperiential knowledge of a nonphysical reality of numbers sets and functions How can these two aspects of mathematics be reconciled This concise book provides a systematic accessible introduction to the field that is trying to answer that question the philosophy of mathematics ystein Linnebo one of the world s leading scholars on the subject introduces all of the classical approaches to the field as well as more specialized issues including mathematical intuition potential infinity and the search for new mathematical axioms Sophisticated but clear and approachable this is an essential book for all students and teachers of philosophy and of mathematics

**The Justificatory Force of Experiences** Philipp Berghofer, 2022-03-24 This book offers a phenomenological conception of experiential justification that seeks to clarify why certain experiences are a source of immediate justification and what role experiences play in gaining scientific knowledge Based on the author s account of experiential justification this book exemplifies how a phenomenological experience first epistemology can epistemically ground the individual sciences More precisely it delivers a comprehensive picture of how we get from epistemology to the foundations of mathematics and physics The book is unique as it utilizes methods and insights from the phenomenological tradition in order to make progress in current analytic epistemology It serves as a starting point for re evaluating the relevance of Husserlian phenomenology to current analytic epistemology and making an important step towards paving the way for future mutually beneficial discussions This is achieved by exemplifying how current debates can benefit from ideas insights and methods we find in the phenomenological tradition

**Kant and Philosophy of Science Today** Michela Massimi, 2008-11-20 There has been an increasing interest in Kant and philosophy of science in the past twenty years Through reconstructing Kantian legacies in the development of nineteenth and twentieth century physics and mathematics this volume explores what relevance Kant s philosophy has in current debates in philosophy of science mathematics and physics

**Understanding and Teaching the Intuitive Mind** Bruce Torff, Robert J. Sternberg, 2001 Pulls together diverse theoretical explores these in a diversity of academic disciplines explicitly links theory research to educ implications

**Reflections on Kurt Gödel** Hao Wang, 1990-03-14 Newton Descartes Einstein G del The seventeenth century had its scientific and philosophical geniuses Why shouldn t ours have them as well Kurt G del was indisputably one of the greatest thinkers of our time and in this first extended treatment of his life and work Hao Wang who was in close contact with G del in his last years brings out the full subtlety of G del s ideas and their connection with grand themes in the history of mathematics and philosophy The subjects he covers include the completeness of elementary logic the limits of formalization the problem of evidence the concept of set the philosophy of mathematics time and relativity theory metaphysics and religion as well as general ideas on philosophy as a worldview Wang whose reflections on his colleague also serve to clarify his own philosophical thoughts distinguishes his ideas from those of G del s and on points of agreement develops G del s views further The book provides a generous array of information on and interpretation of the two main phases of G del s career the years between 1924 and 1939 at the University of Vienna which were marked by intense

mathematical creativity and the period from 1940 to his death in 1978 during which he was affiliated with the Institute for Advanced Studies in Princeton a time in which G del s interests steadily shifted from questions of logic to metaphysics And it also examines G del s relations with the Vienna Circle his philosophical differences with Carnap and Wittgenstein the intimate and mutually fruitful friendship with Einstein and the periodic bouts of depression for which G del was hospitalized a number of times over the course of his life A Bradford Book      **Interpreting Gödel** Juliette Kennedy,2014-08-21 The logician Kurt G del 1906 1978 published a paper in 1931 formulating what have come to be known as his incompleteness theorems which prove among other things that within any formal system with resources sufficient to code arithmetic questions exist which are neither provable nor disprovable on the basis of the axioms which define the system These are among the most celebrated results in logic today In this volume leading philosophers and mathematicians assess important aspects of G del s work on the foundations and philosophy of mathematics Their essays explore almost every aspect of Godel s intellectual legacy including his concepts of intuition and analyticity the Completeness Theorem the set theoretic multiverse and the state of mathematical logic today This groundbreaking volume will be invaluable to students historians logicians and philosophers of mathematics who wish to understand the current thinking on these issues      *Platonism and Anti-Platonism in Mathematics* Mark Balaguer,2001 In this book Balaguer demonstrates that there are no good arguments for or against mathematical platonism He does this by establishing that both platonism and anti platonism are defensible Philosophy

**Philosophy of Mathematics in the Twentieth Century** Charles Parsons,2014-03-17 In these selected essays Charles Parsons surveys the contributions of philosophers and mathematicians who shaped the philosophy of mathematics over the past century Brouwer Hilbert Bernays Weyl G del Russell Quine Putnam Wang and Tait



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