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frege's theorem



RICHARD G. HECK

Frege S Theorem

John P. Burgess



Frege S Theorem:

Frege's Theorem Richard G. Heck, 2011-09-29 Richard Heck explores a key idea in the work of the great philosopher logician Gottlob Frege that the axioms of arithmetic can be logically derived from a single principle Heck uses the theorem to explore historical philosophical and technical issues in philosophy of mathematics and logic relating them to key areas of contemporary philosophy

Frege's Theorem Richard G. Heck, 2011-09-29 Frege's Theorem collects eleven essays by Richard G Heck Jr one of the world's leading authorities on Frege's philosophy The Theorem is the central contribution of Gottlob Frege's formal work on arithmetic It tells us that the axioms of arithmetic can be derived purely logically from a single principle the number of these things is the same as the number of those things just in case these can be matched up one to one with those But that principle seems so utterly fundamental to thought about number that it might almost count as a definition of number If so Frege's Theorem shows that arithmetic follows purely logically from a near definition As Crispin Wright was the first to make clear that means that Frege's logicism long thought dead might yet be viable Heck probes the philosophical significance of the Theorem using it to launch and then guide a wide ranging exploration of historical philosophical and technical issues in the philosophy of mathematics and logic and of their connections with metaphysics epistemology the philosophy of language and mind and even developmental psychology The book begins with an overview that introduces the Theorem and the issues surrounding it and explores how the essays that follow contribute to our understanding of those issues There are also new postscripts to five of the essays which discuss changes of mind respond to published criticisms and advance the discussion yet further

Frege's Philosophy of Mathematics William Demopoulos, 1995 Widespread interest in Frege's general philosophical writings is relatively speaking a fairly recent phenomenon But it is only very recently that his philosophy of mathematics has begun to attract the attention it now enjoys This interest has been elicited by the discovery of the remarkable mathematical properties of Frege's contextual definition of number and of the unique character of his proposals for a theory of the real numbers This collection of essays addresses three main developments in recent work on Frege's philosophy of mathematics the emerging interest in the intellectual background to his logicism the rediscovery of Frege's theorem and the reevaluation of the mathematical content of The Basic Laws of Arithmetic Each essay attempts a sympathetic if not uncritical reconstruction evaluation or extension of a facet of Frege's theory of arithmetic Together they form an accessible and authoritative introduction to aspects of Frege's thought that have until now been largely missed by the philosophical community

Gottlob Frege: Frege's philosophy of mathematics Michael Beaney, Erich H. Reck, 2005 This collection brings together recent scholarship on Frege including new translations of German material which is made available to Anglophone scholars for the first time

An Historical Introduction to the Philosophy of Mathematics: A Reader Russell Marcus, Mark McEvoy, 2016-02-11 A comprehensive collection of historical readings in the philosophy of mathematics and a selection of influential contemporary work this much

needed introduction reveals the rich history of the subject An Historical Introduction to the Philosophy of Mathematics A Reader brings together an impressive collection of primary sources from ancient and modern philosophy Arranged chronologically and featuring introductory overviews explaining technical terms this accessible reader is easy to follow and unrivaled in its historical scope With selections from key thinkers such as Plato Aristotle Descartes Hume and Kant it connects the major ideas of the ancients with contemporary thinkers A selection of recent texts from philosophers including Quine Putnam Field and Maddy offering insights into the current state of the discipline clearly illustrates the development of the subject Presenting historical background essential to understanding contemporary trends and a survey of recent work An Historical Introduction to the Philosophy of Mathematics A Reader is required reading for undergraduates and graduate students studying the philosophy of mathematics and an invaluable source book for working researchers

Reading

Frege's Grundgesetze Richard G. Heck Jr., 2012-11-29 Gottlob Frege's Grundgesetze der Arithmetik or Basic Laws of Arithmetic was intended to be his magnum opus the book in which he would finally establish his logicist philosophy of arithmetic But because of the disaster of Russell's Paradox which undermined Frege's proofs the more mathematical parts of the book have rarely been read Richard G Heck Jr aims to change that and establish it as a neglected masterpiece that must be placed at the center of Frege's philosophy Part I of Reading Frege's Grundgesetze develops an interpretation of the philosophy of logic that informs Grundgesetze paying especially close attention to the difficult sections of Frege's book in which he discusses his notorious Basic Law V and attempts to secure its status as a law of logic Part II examines the mathematical basis of Frege's logicism explaining and exploring Frege's formal arguments Heck argues that Frege himself knew that his proofs could be reconstructed so as to avoid Russell's Paradox and presents Frege's arguments in a way that makes them available to a wide audience He shows by example that careful attention to the structure of Frege's arguments to what he proved to how he proved it and even to what he tried to prove but could not has much to teach us about Frege's philosophy

Fixing Frege John P. Burgess, 2018-06-05 The great logician Gottlob Frege attempted to provide a purely logical foundation for mathematics His system collapsed when Bertrand Russell discovered a contradiction in it Thereafter mathematicians and logicians beginning with Russell himself turned in other directions to look for a framework for modern abstract mathematics Over the past couple of decades however logicians and philosophers have discovered that much more is salvageable from the rubble of Frege's system than had previously been assumed A variety of repaired systems have been proposed each a consistent theory permitting the development of a significant portion of mathematics This book surveys the assortment of methods put forth for fixing Frege's system in an attempt to determine just how much of mathematics can be reconstructed in each John Burgess considers every proposed fix each with its distinctive philosophical advantages and drawbacks These systems range from those barely able to reconstruct the rudiments of arithmetic to those that go well beyond the generally accepted axioms of set theory into the speculative realm of large cardinals For the most part Burgess

finds that attempts to fix Frege do less than advertised to revive his system This book will be the benchmark against which future analyses of the revival of Frege will be measured

Importance and Legacy Matthias Schirn, 2010-12-16 No detailed description available for Importance and Legacy

Essays on Frege's Basic Laws of Arithmetic Philip A. Ebert, Marcus Rossberg, 2019-09-11 The volume is the first collection of essays that focuses on Gottlob Frege's Basic Laws of Arithmetic 1893 1903 highlighting both the technical and the philosophical richness of Frege's magnum opus It brings together twenty two renowned Frege scholars whose contributions discuss a wide range of topics arising from both volumes of Basic Laws of Arithmetic The original chapters in this volume make vivid the importance and originality of Frege's masterpiece not just for Frege scholars but for the study of the history of logic mathematics and philosophy

Frege Michael Dummett, 1991 No one has figured more prominently in the study of the German philosopher Gottlob Frege than Michael Dummett His magisterial Frege Philosophy of Language is a sustained systematic analysis of Frege's thought omitting only the issues in philosophy of mathematics In this work Dummett discusses section by section Frege's masterpiece The Foundations of Arithmetic and Frege's treatment of real numbers in the second volume of Basic Laws of Arithmetic establishing what parts of the philosopher's views can be salvaged and employed in new theorizing and what must be abandoned either as incorrectly argued or as untenable in the light of technical developments Gottlob Frege 1848 1925 was a logician mathematician and philosopher whose work had enormous impact on Bertrand Russell and later on the young Ludwig Wittgenstein making Frege one of the central influences on twentieth century Anglo American philosophy he is considered the founder of analytic philosophy His philosophy of mathematics contains deep insights and remains a useful and necessary point of departure for anyone seriously studying or working in the field

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Frege S Theorem Introduction

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