

Frege S Theorem

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[first order logic wikipedia](#)

first order logic also known as predicate logic quantificational logic and first order predicate calculus is a collection of formal systems used in mathematics philosophy linguistics and computer science first order logic uses quantified variables over non logical objects and allows the use of sentences that contain variables so that rather than propositions such as socrates

[inductive logic stanford encyclopedia of philosophy](#)

sep 06 2004 an inductive logic is a logic of evidential support in a deductive logic the premises of a valid deductive argument logically entail the conclusion where logical entailment means that every logically possible state of affairs that makes the premises true must make the conclusion true as well thus the premises of a valid deductive argument provide total support

[russell s paradox stanford encyclopedia of philosophy](#)

dec 08 1995 frege s version of nc his axiom v can simply be abandoned for details see the entry on frege s theorem for another church gives an elegant formulation of the simple theory of types that has proven fruitful even in areas removed from the

[principia mathematica stanford encyclopedia of philosophy](#)

may 21 1996 at this point the alternative to frege s theorem is completed in the sense that we are presented with a consistent development of the natural numbers based on a theory of higher order logic with a number of additional axioms philosophers soon followed ludwig wittgenstein 1922 and disputed the idea that these additional axioms the

[philosophy of mathematics stanford encyclopedia of philosophy](#)

sep 25 2007 cantor s theorem shows that the power set $i e$ the set of all subsets of any given set has a larger cardinality than the given set itself frege s conception of numbers as objects scots philosophical monographs volume 2 aberdeen aberdeen university press yablo s 2014 aboutness princeton princeton university press zach r

[controversy over cantor s theory wikipedia](#)

cantor s argument cantor s first proof that infinite sets can have different cardinalities was published in 1874 this proof demonstrates that the set of natural numbers and the set of real numbers have different cardinalities it uses the theorem that a bounded increasing sequence of real numbers has a limit which can be proved by using cantor s or richard dedekind s

[gottlob frege stanford encyclopedia of philosophy](#)

sep 14 1995 1 frege s life and influences according to the curriculum vitae that the 26 year old frege filed in 1874 with his habilitationsschrift he was born on november 8 1848 in wismar a town then in mecklenburg schwerin but now in mecklenburg vorpommern his father alexander a headmaster of a secondary school for girls and his mother auguste nee

[russell s paradox wikipedia](#)

in mathematical logic russell s paradox also known as russell s antinomy is a set theoretic paradox discovered by the british philosopher and mathematician bertrand russell in 1901 russell s paradox shows that every set theory that contains an unrestricted comprehension principle leads to contradictions the paradox had already been discovered independently in

[georg cantor wikipedia](#)

georg ferdinand ludwig philipp cantor ' k æ n t ɔ : r kan tor german 'ge:ɔɪk 'fæɹdinant 'lu:tvɪç 'fi:lɪp 'kantɔɪ march 3 o s february 19 1845 january 6 1918 was a german mathematician he played a pivotal role in the creation of set theory which has become a fundamental theory in mathematics cantor established the importance of one to one

[cantor s theorem wikipedia](#)

in mathematical set theory cantor s theorem is a fundamental result which states that for any set the set of all subsets of the power set of has a strictly greater cardinality than itself for finite sets cantor s theorem can be seen to be true by simple enumeration of the number of subsets counting the empty set as a subset a set with elements has a total of subsets and

[boolean algebra wikipedia](#)

in mathematics and mathematical logic boolean algebra is the branch of algebra it differs from elementary algebra in two ways first the values of the variables are the truth values true and false usually denoted 1 and 0 whereas in elementary algebra the values of the variables are numbers second boolean algebra uses logical operators such as conjunction and denoted

[peano axioms wikipedia](#)

peano was unaware of frege s work and independently recreated his logical apparatus based on the work of boole and schröder although it is widely claimed that gödel s theorem rules out the possibility of a finitistic consistency proof for peano arithmetic this depends on exactly what one means by a finitistic proof

[gottlob frege wikipedia](#)

friedrich ludwig gottlob frege ' f r e i g ə german 'gɔtlo:p 'fre:gə 8 november 1848 26 july 1925 was a german philosopher logician and mathematician he was a mathematics professor at the university of jena and is understood by many to be the father of analytic philosophy concentrating on the philosophy of language logic and mathematics

[de morgan s laws wikipedia](#)

de morgan s laws can be proved easily and may even seem trivial nonetheless these laws are helpful in making valid inferences in proofs and deductive arguments informal proof de morgan s theorem may be applied to the negation of a disjunction or the negation of a conjunction in all or part of a formula negation of a disjunction

[hilbert s problems wikipedia](#)

nature and influence of the problems hilbert s problems ranged greatly in topic and precision some of them like the 3rd problem which was the first to be solved or the 8th problem the riemann hypothesis which still remains unresolved were presented precisely enough to enable a clear affirmative or negative answer for other problems such as the 5th experts have

[eudoxus of cnidus wikipedia](#)

eudoxus of cnidus ' ju: d ə k s ə s ancient greek Εὐδόξος ὁ Κνίδιος eúdoxos ho knídios c 408 c 355 bc was an ancient greek astronomer mathematician scholar and student of archytas and plato all of his original works are lost though some fragments are preserved in hipparchus commentary on aratus s poem on astronomy

[frege gottlob internet encyclopedia of philosophy](#)

frege s logical works were revolutionary and are often taken to represent the fundamental break between contemporary approaches and the older aristotelian tradition it is possible to prove a strong theorem of class membership that for any object x that object is in the extension of concept f if and only if the value of f for x as

consistency wikipedia

consistency and completeness in arithmetic and set theory in theories of arithmetic such as peano arithmetic there is an intricate relationship between the consistency of the theory and its completeness a theory is complete if for every formula φ in its language at least one of φ or $\neg\varphi$ is a logical consequence of the theory

alonzo church wikipedia

alonzo church june 14 1903 august 11 1995 was a renowned american mathematician computer scientist logician philosopher professor and

editor who made major contributions to mathematical logic and the foundations of theoretical computer science he is best known for the lambda calculus the church turing thesis proving the unsolvability of the

linguistic relativity wikipedia

the hypothesis of linguistic relativity also known as the sapir whorf hypothesis s ə , p ɪər ' w ɔːr f the whorf hypothesis or whorfianism is a principle suggesting that the structure of a language affects its speakers worldview or cognition and thus people s perceptions are relative to their spoken language linguistic relativity has been understood in many different