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approximating real numbers with rational numbers In number theory, the study of Diophantine approximation deals with the approximation of real numbers by rational numbers. It is named after Diophantus of Alexandria. The first problem was to know how well a real number can be approximated by rational numbers. For this problem, a rational number a/b is a "good" approximation of a real number α if the absolute value of the difference between a/b and α may not decrease if a/b is replaced by ...

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~~Diophantine approximation — Wikipedia~~

Diophantine approximations The branch of number theory whose subject is the approximation of zero by values of functions of a finite number of integer arguments.

~~Diophantine approximations — Encyclopedia of Mathematics~~

Diophantine approximation is a branch of number theory originally created by Diophantus for estimating any given real number as a ratio of two integers. Much of the current research into this topic is on whether or not this theory can be applied to algebraic numbers.

~~Diophantine approximation — Simple English Wikipedia, the ...~~

Diophantine Approximations. a part of the theory of numbers that studies approximations of real numbers by rational numbers or, in a broader context, problems involved in finding integral solutions of linear and nonlinear inequalities or systems of inequalities with real coefficients. Diophantine approximations are named after the ancient Greek mathematician Diophantus, who worked on the problem of finding integral solutions of algebraic equations (Diophantine equations).

~~Diophantine approximation | Article about Diophantine ...~~

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diophantine approximation is a topic in number theory that deals with the approximation of irrational numbers by rational numbers. for example, the golden ratio $[1+\sqrt{5}]/2$ is approximately $21/13$ (or other ratios of fibonacci numbers),

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which can be easily seen via phi's continued fraction expansion. niven's "diophantine approximations" is an extended version of a lecture delivered by the author at a meeting of the mathematical association of america in 1960. at 62 pages sans the front and ...

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Dirichlet's Approximation Theorem tells us that there exists a rational number $\frac{p}{q}$, where p, q are integers and $1 < q \leq N$, such that $|x - \frac{p}{q}| < \frac{1}{Nq}$. Comparing and $(\)$, we see that $p - qx = \frac{s}{t}$ for each of those nitely many solutions s, t to the original inequality. But $x - \frac{p}{q} < \frac{1}{Nq} < \frac{1}{q^2}$: That is, we get a new solution $\frac{p}{q}$ which is not any of the original ones. This

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In number theory, Dirichlet's theorem on Diophantine approximation, also called Dirichlet's approximation theorem, states that for any real numbers α, β , with $1, \alpha, \beta$ linearly independent over \mathbb{Q} , there exist integers p, q such that $|p - q\alpha - q\beta| < \frac{1}{q^2}$ and

~~Dirichlet's approximation theorem - Wikipedia~~
Diophantine approximations. Paul Vojta. Pages 16-29. A correspondence with Nevanlinna theory. Paul Vojta. Pages 30-45. PDF. Consequences of the main conjecture. Paul Vojta. Pages 46-56. The ramification term. Paul Vojta. Pages 57-88. Approximation to hyperplanes. Paul Vojta. Pages 89-123. Back Matter.

~~Diophantine Approximations and Value Distribution Theory ...~~
Counting Diophantine Approximations Brüdern, Jörg, *Functiones et Approximatio Commentarii Mathematici*, 2008; Diophantine approximation with Goldbach numbers Harman, Glyn, *Functiones et Approximatio Commentarii Mathematici*, 2020; Card shuffling and Diophantine approximation Angel,

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Omer, Peres, Yuval, and Wilson, David B., Annals of Applied Probability, 2008

~~Schmidt : Diophantine approximation of complex numbers~~

In number theory, the field of Diophantine approximation, named after Diophantus of Alexandria, deals with the approximation of real numbers by rational numbers.. The first problem was to know how well a real number can be approximated by rational numbers. For this problem, a rational number a/b is a "good" approximation of a real number α if the absolute value of the difference between a/b and α is less than $1/b^2$.

~~Diophantine approximation : definition of Diophantine ...~~

It covers basic results on homogeneous approximation of real numbers; the analogue for complex numbers; basic results for nonhomogeneous approximation in the real case; the analogue for complex numbers; and fundamental properties of the multiples of an irrational number, for both the fractional and integral parts.

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Abstract The present thesis reveals a novel connection of Diophantine approximation arising from small divisors to general relativity, more precisely, the Strong Cosmic Censorship conjecture. The main results provide theorems which resolve a linear scalar analog of the Strong Cosmic Censorship conjecture in general relativity for $\epsilon < 0$.

~~Diophantine Approximation as Cosmic Censor for AdS Black Holes~~

Diophantine approximation on the parabola with non-monotonic approximation functions - JING-JING HUANG.

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~~Iterated differences sets, diophantine approximations and ...~~

Diophantine Approximation is a branch of Number Theory having its origins in the problem of producing "best" rational approximation to given real numbers.

~~Diophantine Approximation — Lectures given at the C.I.M.E. ...~~

Diophantine Analysis examines the theory of diophantine approximations and the theory of diophantine equations, with emphasis on interactions between these subjects. Beginning with the basic principles, the author develops his treatment around the theory of continued fractions and examines the classic theory, including some of its applications.

~~Diophantine Analysis — 1st Edition — Jörn Steuding ...~~

Diophantine approximation . By Wolfgang M Schmidt. Cite . BibTex; Full citation; Abstract "In 1970, at the U. of Colorado, the author delivered a course of lectures on his famous generalization, then just established, relating to Roth's theorem on rational approximations to algebraic numbers. ...