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## **Diophantine Approximations**

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

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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  $\alpha$  if the  
absolute value of the  
difference between  $a/b$   
and  $\alpha$  may not  
decrease if  $a/b$  is ...

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### **Diophantine approximation - Wikipedia**

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

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approximation is useful in a variety of areas in number theory, so ...

### **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

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finding integral solutions of linear and nonlinear inequalities or systems of inequalities with real coefficients.

## **Diophantine approximation | Article about Diophantine ...**

Diophantine approximations The branch of number theory whose subject is the approximation of zero by values of

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functions of a finite number of integer arguments.

### **Diophantine approximations - Encyclopedia of Mathematics**

This is a series of lecture notes for a class on Diophantine approximations and the work of Alan Baker taught by Cam Stewart. 1 Sept. 4, 2019. Consider the following problems. (i) Find a



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integersolutionsof  $x^3 - 2y = 6$ . (ii) Given  $k \in \mathbb{Z}^+$ , find all integersolutionsof  $y^2 = x^3 + k$ . We did not have a general method of tackling these sorts of Diophantine ...

## **Diophantine**

### **Approximations -**

### **Mathematics**

Diophantine  
Approximations.  
Problem N6, ISL 2019.  
Let  $k$  and  $l$  be a  
positive integer. Prove

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that there exists a constant such that, if satisfies , then there exist such that (Here is the set of positive integers, and denotes the greatest integer less than or equal to )

### **IMO 2019 Shortlist, N6. Diophantine Approximations. - A**

...

This self-contained treatment covers basic results on homogeneous

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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 fractional and integral parts. 1963 edition.

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#### **Approximations - Dover**

Diophantine approximation is the process of finding successively better rational approximations to irrational numbers. The fact that any irrational number can be approximated arbitrarily closely by rational numbers is, of course, just the fact that  $\mathbb{Q}^{\wedge} \mathbb{R}$  is dense.

That said, Diophantine

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approximation is the study of how well or quickly such ...

### **Diophantine Approximation and Transcendence Theory**

Any real number has a sequence of good rational approximations. In number theory, Dirichlet's theorem on Diophantine approximation, also called Dirichlet's

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approximation theorem, states that for any real numbers  $\alpha$ .  $\{\displaystyle \alpha\}$  and  $N$ .  $\{\displaystyle N\}$ , with  $1 \leq N$ .

### **Dirichlet's approximation theorem - Wikipedia**

Beginning with the work of Osgood, it has been known that the branch of complex analysis known as Nevanlinna theory (also called value

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distribution theory) has many similarities with Roth's theorem on diophantine approximation.

### **Diophantine Approximation and Nevanlinna Theory | SpringerLink**

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Morton Niven,  
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This inequality is from diophantine approximations. Any non-trivial improvement of this inequality shows that certain class of diophantine equations, known as Thue equations, has only finitely...

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*Page 16/23*



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## **approximations, Diophantine equations ...**

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), which can be easily seen via  $\phi$ 's

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continued fraction  
expansion.

## **Diophantine Approximations - bitofnews.com**

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

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approximated by rational numbers. For this problem, a rational number  $a/b$  is a "good" approximation of a real number  $\alpha$  if the absolute value of the difference between  $a/b$  ...

### **Diophantine approximation : definition of Diophantine ...**

In number theory, the field of Diophantine approximation, named

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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  $\alpha$  if the absolute value of the difference between  $a/b$

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planetary ...**

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extent can  $p/2$  be approximated by a fraction? This ancient question has motivated the study of Diophantine approximation, an active area of mathematics which investigates the approximation of real numbers by rationals. We survey basic results with respect to the

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