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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 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.

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

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