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learning the theory.

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theory in 1897, which gave the first systematic account of the theory. Some of his famous problems were on number theory, and have also been influential.

TAKAGI (1875–1960). He proved the fundamental theorems of abelian class field theory, as conjectured by Weber

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and Hilbert.
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The Dirichlet divisor
problem, for which he
found the first results,
is still an unsolved
problem in number
theory despite later
contributions by other
researchers.

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Dedekind [edit]

Richard Dedekind 's
study of Lejeune

Dirichlet's work was
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Problem 1: Find all

$x, y \in \mathbb{Z}$ such that x^3

$- y^2 = 1$. Remark: This

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is a special case of a general problem known as “ Catalan ’ s conjecture ” , which is that the only solution to $x^m - y^n = 1$

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These unsolved
problems occur in
multiple domains,

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including physics,
computer science,
algebra, analysis,
combinatorics,
algebraic, differential,
discrete and
Euclidean geometries,
graph, group, model,
number, set and
Ramsey theories,
dynamical systems,
partial differential
equations, and more.
Some problems may

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belong to more than
one discipline of
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Theory. Algebraic
number theory is the
branch of number

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theory that deals with algebraic numbers.

Historically, algebraic number theory developed as a set of tools for solving problems in elementary number theory, namely Diophantine equations (i.e., equations whose solutions are integers or rational numbers).

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theory: Topics &
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The history of discrete mathematics has involved a number of challenging problems which have focused attention within areas of the field. In graph theory, much research was motivated by attempts

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to prove the four color
theorem, first stated in
1852, but not proved
until 1976 (by
Kenneth Appel and
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using substantial
computer assistance).

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independent study of the subject. It provides the reader with a large collection of problems (about 500), at the level of a first course on the algebraic theory of numbers (with undergraduate algebra as a prerequisite).

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As will become more clear, algebraic number theory deals with the algebraic aspects of these numbers, forgetting that they are real or complex numbers (or more precisely forgetting where they are located amongst other real or complex

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numbers). What
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satisfy. While it is
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sheet #3 1. (i) Show
that $A \cap Q = R \cap (Z + Q)$.

(ii) Use Theorem 5.4
to show that for any
extension $L = K$ of

number fields $A \cap L = A \cap K$

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KL. (iii) Let $L=K$ be a finite extension of number fields, Show that the trace maps tr_L $w=K$: $L \rightarrow K$ define a continuous additive homomorphism tr_L $L \rightarrow K$, whose restriction to L is the trace map $L \rightarrow K$.

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He wrote a very influential book on algebraic number theory in 1897, which gave the first systematic account of the theory. Some of his famous problems were on number theory, and have also been influential.

TAKAGI (1875–1960).

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He proved the fundamental theorems of abelian class field theory, as conjectured by Weber and Hilbert.

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The Dirichlet divisor
problem, for which he
found the first results,

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is still an unsolved problem in number theory despite later contributions by other researchers.

Dedekind [edit]
Richard Dedekind 's study of Lejeune Dirichlet's work was what led him to his later study of algebraic number fields and ideals.

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theory - Wikipedia

Problem 1: Find all $x, y \in \mathbb{Z}$ such that $x^3 - y^2 = 1$. Remark: This is a special case of a general problem known as “Catalan’s conjecture”, which is that the only solution to $x^m - y^n = 1$

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These unsolved
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graph, group, model,
number, set and

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dynamical systems,
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number theory is the
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theory that deals with
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Historically, algebraic
number theory
developed as a set of
tools for solving
problems in
elementary number
theory, namely

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Diophantine
equations (i.e.,
equations whose
solutions are integers
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The history of discrete
mathematics has
involved a number of
challenging problems
which have focused

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attention within areas of the field. In graph theory, much research was motivated by attempts to prove the four color theorem, first stated in 1852, but not proved until 1976 (by Kenneth Appel and Wolfgang Haken, using substantial computer assistance).

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Discrete mathematics
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As will become more
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complex numbers (or more precisely forgetting where they are located amongst other real or complex numbers). What matters is the algebraic relations that these numbers satisfy. While it is convenient to imagine

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that $A \subseteq Q = R \subseteq Z \subseteq Q$.

(ii) Use Theorem 5.4

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number fields $A \subseteq L \subseteq A \subseteq K$

KL . (iii) Let $L=K$ be a

finite extension of

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homomorphism tr

$L=K$: $A \subseteq L \subseteq A \subseteq K$, whose

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trace map $L \rightarrow K$.

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