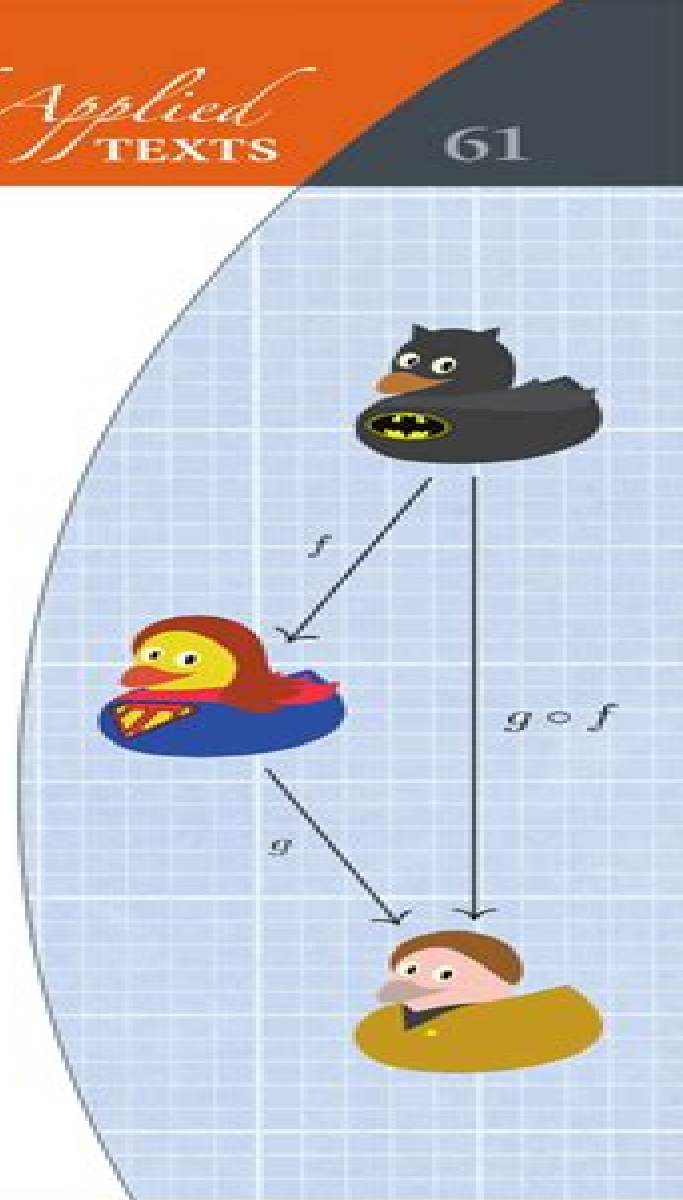


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Charles Vanden Eynden, 1970 A Classical Introduction to Modern Number Theory Kenneth Ireland, Michael Rosen, 2013-04-17 Bridging the gap between elementary number theory and the systematic study of advanced topics. A Classical Introduction to Modern Number Theory is a well developed and accessible text that requires only a familiarity with basic abstract algebra. Historical development is stressed throughout along with wide ranging coverage of significant results with comparatively elementary proofs, some of them new. An extensive bibliography and many challenging exercises are also included. This second edition has been corrected and contains two new chapters which provide a complete proof of the Mordell-Weil theorem for elliptic curves over the rational numbers and an overview of recent progress on the arithmetic of elliptic curves. Relearning Mathematics Rina Zazkis, 2011-08-01 This book is grounded in the author's experiences of teaching mathematics for prospective elementary school teachers and conducting research on their understanding of mathematical concepts. It is a reflection on practice and an attempt to cope with a double challenge: that of a teacher in helping prospective teachers make sense of mathematics and that of a researcher in an attempt to understand and describe the challenges faced by students. This work fits within the current community interest on teacher education and provides a novel focus with both theoretical and practical considerations. The central claim in this book is that encounters with

mathematical content by prospective elementary school teachers constitute relearning rather than learning of mathematics. The specific focus is on topics related to elementary number theory e.g. divisibility, prime factorization, which is referred to as a forgotten queen following Gauss' reference to number theory as a queen of mathematics. This is the content area that has not received significant attention in mathematics education research. The book can be summarized as an attempt to address the following questions: What is relearning of mathematical content and how is it similar to or different from learning? What are the examples of specific mathematical topics or concepts that require relearning? What pedagogical approaches can support relearning? The detailed analysis of research data and pedagogical approaches presented in the book are intertwined with stories of personal experiences of the author which makes the reading not only intellectually stimulating but also enjoyable.

Number Theory David Chudnovsky, 2004. This volume marks the 20th anniversary of the New York Number Theory Seminar (NYNTS). Beginning in 1982, the NYNTS has tried to present a broad spectrum of research in number theory and related fields of mathematics from physics to geometry to combinatorics and computer science. The list of seminar speakers includes not only Fields Medallists and other established researchers but also many other younger and less well-known mathematicians whose theorems are significant and whose work may become the next big thing in number theory.

Number Theory W.A. Coppel, 2009-08-12. Number Theory is more than a comprehensive treatment of the subject. It is an introduction to topics in higher level mathematics and unique in its scope: topics from analysis, modern algebra, and discrete mathematics are all included. The book is divided into two parts. Part A covers key concepts of number theory and could serve as a first course on the subject. Part B delves into more advanced topics and an exploration of related mathematics. The prerequisites for this self-contained text are elements from linear algebra. Valuable references for the reader are collected at the end of each chapter. It is suitable as an introduction to higher level mathematics for undergraduates or for self study.

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