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Autore	BELLAGAMBA, Lino
Titolo	Autocertificazione e semplificazine della gara d'appalto : problemi e casi pratici : schemi di bando e di lettera d'invio riportati anche su floppy disk in formato Microsoft Word per Windows / Lino Bellagamba
Pubbl/distr/stampa	Milano : Giuffrè, 1998
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Collana	Cosa & come : Enti locali ; 35
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Titolo

Advanced mathematical thinking / / edited by David Tall

Pubbl/distr/stampa

Dordrecht ; ; Boston, : Kluwer Academic Publishers, c1991

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Descrizione fisica

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Collana

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Altri autori (Persone)

TallDavid Orme

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Soggetti

Mathematics - Study and teaching
Mathematics - Psychological aspects

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Inglese

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Note generali

Description based upon print version of record.

Nota di bibliografia

Includes bibliographical references (p. 261-274) and index.

Nota di contenuto

The Psychology of Advanced Mathematical Thinking -- The Nature of Advanced Mathematical Thinking -- Advanced Mathematical Thinking Processes -- Mathematical Creativity -- Mathematical Proof -- Cognitive Theory of Advanced Mathematical Thinking -- The Role of Definitions in the Teaching and Learning of Mathematics -- The Role of Conceptual Entities and Their Symbols in Building Advanced Mathematical Concepts -- Reflective Abstraction in Advanced Mathematical Thinking -- Research into the Teaching and Learning of Advanced Mathematical Thinking -- Research in Teaching and Learning Mathematics at an Advanced Level -- Functions and Associated Learning Difficulties -- Limits -- Analysis -- The Role of Students' Intuitions of Infinity in Teaching the Cantorian Theory -- Research on Mathematical Proof -- Advanced Mathematical Thinking and the Computer -- Epilogue -- Reflections.

Sommario/riassunto

Advanced Mathematical Thinking has played a central role in the development of human civilization for over two millennia. Yet in all that time the serious study of the nature of advanced mathematical thinking – what it is, how it functions in the minds of expert mathematicians, how it can be encouraged and improved in the developing minds of students – has been limited to the reflections of a few significant individuals scattered throughout the history of mathematics. In the

twentieth century the theory of mathematical education during the compulsory years of schooling to age 16 has developed its own body of empirical research, theory and practice. But the extensions of such theories to more advanced levels have only occurred in the last few years. In 1976 The International Group for the Psychology of Mathematics (known as PME) was formed and has met annually at different venues round the world to share research ideas. In 1985 a Working Group of PME was formed to focus on Advanced Mathematical Thinking with a major aim of producing this volume. The text begins with an introductory chapter on the psychology of advanced mathematical thinking, with the remaining chapters grouped under three headings: • the nature of advanced mathematical thinking, • cognitive theory, and • reviews of the progress of cognitive research into different areas of advanced mathematics.
