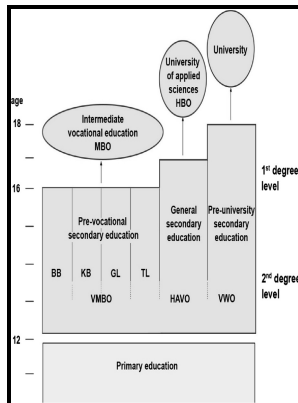


The mathematics that every secondary school math teacher needs to know

Routledge - [PDF] Mathematics In Secondary School



Description: -

- Mathematics -- Study and teaching (Secondary)

Mathematics teachers -- In-service training
The mathematics that every secondary school math teacher needs to know

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Notes: Includes bibliographical references and index.

This edition was published in 2010



Filesize: 11.29 MB

Tags: #9780415994132: #The #Mathematics #That #Every #Secondary #School #Math #Teacher #Needs #to #Know #(Studies #in #Mathematical #Thinking #and #Learning #Series)

The Mathematics That Every Secondary School Math Teacher Needs to Know on Apple Books

The informal, clear style supports an interactive learner-centered approach through engaging pedagogical features: Launch Questions at the beginning of each section capture interest and involve readers in learning the mathematical concepts. Designed to help pre-service and in-service teachers gain the knowledge they need to facilitate students' understanding, competency, and interest in mathematics, the revised and updated Second Edition of this popular text and resource bridges the gap between the mathematics learned in college and the mathematics taught in secondary schools. Written in an informal, clear, and interactive learner-centered style, it is designed to help pre-service and in-service teachers gain the deep mathematical insight they need to engage their students in learning mathematics in a multifaceted way that is interesting, developmental, connected, deep, understandable, and often, surprising and entertaining.

9780415994132: The Mathematics That Every Secondary School Math Teacher Needs to Know (Studies in Mathematical Thinking and Learning Series)

The mathematical ideas under consideration build on specific middle and secondary school content while simultaneously pushing the teacher to consider more advanced topics, as well as various connections across mathematical domains.

9780415994132: The Mathematics That Every Secondary School Math Teacher Needs to Know (Studies in Mathematical Thinking and Learning Series)

Regrettably, the promise of those intentions is largely unrealized in this massive book. This unique text and resource bridges the gap between the mathematics learned in college and the mathematics taught in secondary schools. It can be used both in graduate and undergraduate courses, in accordance with the focus of teacher preparation programs.

The Mathematics That Every Secondary School Math Teacher Needs to Know

Overcoming student resistance to mathematical conversations.

The Mathematics that Every Secondary School Math Teacher Needs to Know

Beyond the obvious goals of conceptual understanding and computational fluency, readers are invited to devise mathematical explanations and arguments, create examples and visual representations, remediate typical student errors and misconceptions, and analyze student work. Acknowledging diversity in the mathematical backgrounds of pre-service teachers and in the goals of teacher preparation programs, the authors have written a flexible text, through which instructors can emphasize any of the following: Basics: exploration of key pre-college topics from intuitive and rigorous points of view; Connections: exploration of relationships among topics, using tools from college-level mathematics; Extensions: exploration of college-level mathematical topics that have a compelling relationship to pre-college mathematics.

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