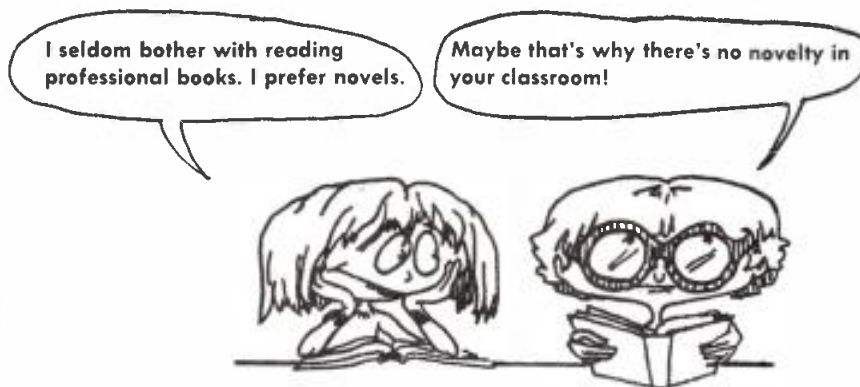


NCTM's Newest Nine



Reprinted from Newsletter, National Council of Teachers of Mathematics, May 1977.

We've borrowed these cartoon characters from one of our delightful new books, *How to Study Mathematics*, to call your attention to NCTM's Newest Nine - nine new books packed with classroom helps for you and your students. Perhaps one or several - or all - will be just what you need on your personal or classroom bookshelf or what your school needs in its library. Peruse the reviews, use the convenient order blank following to let us know what to send you, and enjoy!

Four-Dimensional Geometry - an Introduction, by Adrien L. Hess, contains everything you've always wanted to know about four-dimensional geometry but didn't quite know how to ask! This 32-page booklet presents a history and a definition of four-dimensional geometry, selected drawings and models, and instructions on how to study the configurations. \$1.60

The *Mathematics Projects Handbook* is also by Adrien L. Hess. This book is useful for helping teachers help students come up with intriguing ideas for projects. Many ideas are incorporated in the text of the 48-page handbook, and an extensive bibliography points the way to materials that will stimulate further ideas. \$1.70

Guidelines for the Tutor of Mathematics, by Henry S. Kepner, Jr., and David R. Johnson, is full of ideas and encouragement for the student who has been asked to tutor a fellow student in mathematics. Although the prospective tutors will undoubtedly be successful in mathematics, they may lack teaching skills, and that is the gap that this useful 32-page booklet proposes to fill. It can be read in a single sitting and then used as a reference when specific questions or problems arise. \$1.30

How to Study Mathematics: A Handbook for Students, by James Margenau and Michael Sentlowitz, is a readable self-help for the struggling but earnest mathematics student. Captivating cartoons enliven the text. A valuable feature is the list of diagnoses ("All those quizzes and tests make me nervous") and prescriptions. A helpful addition to the school library or mathematics classroom, the lively 32-page booklet sells for \$1.30.

Calculus: Readings from the "Mathematics Teacher" is edited by Louise S. Grinstein and Brenda Michaels. Grinstein and Michaels have scoured back issues of the *Mathematics Teacher* from its first issue in 1908 through 1974 for articles on calculus. The editors include an annotated bibliography of further readings at the close of each section of the book, as well as helpful author and subject indexes. With 225 pages, *Calculus* sells for \$4.90.

An In-Service Handbook for Mathematics Education is edited by Alan Osborne. It is a study of in-service education: the reasons for it; a reporting of the "what-is and the what-ought-to-be of in-service education" according to teachers and supervisors; an analysis of policies, processes, and procedures for in-service education in terms of the rules and responsibilities of individuals and institutions participating in the in-service effort; and a consideration of the future of in-service education for mathematics teachers. This 256-page handbook sells for \$4.80.

Bulletin Board Ideas for Elementary and Middle School Mathematics is by Seaton E. Smith, Jr. Any teacher who has ever struggled to come up with an idea for a bulletin-board display will appreciate this booklet, which is rich in ideas and in full-color photographs of real teacher-made bulletin boards. This valuable 56-page book sells for \$3.00.

How to Draw a Straight Line, by A.B. Kempe, was first published in London in 1877 as an expanded version of a "Lecture on Linkages" by the author. Now NCTM has reprinted this venerable classic, an elegant 64-page hardback, as the sixth in its Classics in Mathematics Education series. \$4.90

NCTM's 1977 Yearbook, *Organizing for Mathematics Instruction*, edited by Joe Crosswhite and Robert Reys, discusses such alternative teaching approaches as individualization, survival groups, simulations, open schools, and others. Seventeen authors writing on 12 topics tell how to organize for such approaches and give specific illustrative examples. A timely, non-thematic essay on hand-held calculators is included. Hardback, \$8.50 (as usual, NCTM members are entitled to a \$2 discount on one copy of the yearbook).

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