

Calculus Reform— For the Millions

David Mumford

About twenty years ago I was part of a group of professors from many fields who met once a month for dinner and an after-dinner talk given by one of the members. It was entertaining to hear glimpses of legal issues, historical problems, discussions of what freedom meant in different cultures. But then I had to give one of these talks! I was working on algebraic geometry then, and I tried to figure out what I could say that would hold my colleagues' attention while digesting a large meal. In the end I decided to stick to a rather anecdotal level but to inject one bit of real math. I thought I would try to explain to them the first mathematical formula that I had seen in school which totally bewildered me. This was $e^{i\pi} = -1$. It seemed to me that here was a nugget of real math and maybe it could be explained. Here is how I tried.

I got e into the picture by discussing a savings bank which pays 100% interest, and convinced them that in a year they would get more than \$2 for each \$1 invested. It was not hard to convince them they would get between \$2.50 and \$3 per dollar invested, and we could define e to be their balance after a year. Then I needed i . Most people have heard of i , and I just described it as part of a game invented by mathematicians to get enough numbers so every equation has solutions: starting with the one new rule that multiplying i by i you get -1 , you get all the numbers $a + ib$ and their arithmetic. Next, imagine you go to the neighborhood savings

bank, and it is running a special promotion with a new account which pays imaginary interest at the rate of 100%. The audience immediately sees that you get imaginary interest building up and that the interest on the interest is decreasing your total of real dollars. You run them through a few more numbers, and they see that their real funds will go to 0, while their imaginary funds build up to about 1.2; then they go into real debt, next imaginary debt, and finally get their real \$1 back, which they immediately withdraw! A little picture in the complex plane convinces them that this will take 2π years, while after π years they were in debt \$1: voilà, $e^{i\pi} = -1$!

What is the point of this struggle to communicate some tiny bit of math? For me, the lesson was that I think my audience got a bit of honest math from this and that what they struggled to learn consisted of some numerical fiddling, some geometry (the circle showing the evolution of your balance in the complex plane), and some thinking about the rules which underlie arithmetic and exponentiation. I do not think I said anything mathematically dishonest, yet I certainly gave no proof of anything. I think this is the same approach as that taken by many calculus reform texts, and it is exactly the philosophy of the Gleason-Hallett Calculus Consortium.

The problem of communicating comes up in many situations other than after-dinner speeches. For nearly fifteen years I have been doing applied mathematics, and I have to talk especially to biologists, psychologists, and engineers. The same rules seem to apply. If I mention L^p , they have me pegged as "one of them".

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Reform Calculus

**Fernando Hitt,Guershon Harel,Annie
Selden**

Reform Calculus:

Reform Calculus Assistant Professor of Theology Columba Stewart, Osb, James Stewart, 1999-02 This is a direct continuation of the Study Guide for Single Variable Calculus Concepts and Contexts 1 e Contains chapters 8 13 **Calculus Renewal** Susan L. Ganter, 2000-05-31 The movement to change the nature of the calculus course at the undergraduate and secondary levels has sparked discussion and controversy in ways as diverse as the actual changes The first years of the calculus reform movement were characterized by a whirlwind of ideas concerning the organization of the course and the associated curriculum The papers contained within Calculus Renewal Issues for Undergraduate Mathematics Education in the Next Decade will spark a renewed interest in the endeavor embarked upon over 10 years ago when the first calculus grants were awarded by the National Science Foundation NSF This book intends to address relating mathematics to other disciplines determining the appropriate mathematical skill for students exiting first year collegiate mathematics courses determining the appropriate role of technology determining the appropriate role of administrators in the change process and evaluating the progress and impact of curricular change **Research in Collegiate Mathematics Education IV** Ed Dubinsky, 2000 This fourth volume of Research in Collegiate Mathematics Education RCME IV reflects the themes of student learning and calculus Included are overviews of calculus reform in France and in the U S and large scale and small scale longitudinal comparisons of students enrolled in first year reform courses and in traditional courses The work continues with detailed studies relating students understanding of calculus and associated topics Direct focus is then placed on instruction and student comprehension of courses other than calculus namely abstract algebra and number theory The volume concludes with a study of a concept that overlaps the areas of focus quantifiers The book clearly reflects the trend towards a growing community of researchers who systematically gather and distill data regarding collegiate mathematics teaching and learning This series is published in cooperation with the Mathematical Association of America **Research in Collegiate Mathematics Education** Annie Selden, Ed Dubinsky, 2003 **A 5-Year Study of the First Edition of the Core-Plus Mathematics Curriculum** Harold Schoen, Steven W. Ziebarth, Christian R. Hirsch, Allison BrckaLorenz, 2010-06-29 This study evaluates NSF funded Standards based high school math curricula It examines stable implementations in three schools involving students with up to seven years of experience The study monitors achievement beliefs and attitudes over five years relating curriculum implementation to student outcomes and teacher behavior **Research in Collegiate Mathematics Education VI** Fernando Hitt, Guershon Harel, Annie Selden, 2006 The sixth volume of Research in Collegiate Mathematics Education presents state of the art research on understanding teaching and learning mathematics at the postsecondary level The articles advance our understanding of collegiate mathematics education while being readable by a wide audience of mathematicians interested in issues affecting their own students This is a collection of useful and informative research regarding the ways our students think about and learn mathematics The volume opens with studies on students experiences

with calculus reform and on the effects of concept based calculus instruction The next study uses technology and the van Hiele framework to help students construct concept images of sequential convergence The volume continues with studies on developing and assessing specific competencies in real analysis on introductory complex analysis and on using geometry in teaching and learning linear algebra It closes with a study on the processes used in proof construction and another on the transition to graduate studies in mathematics Whether they are specialists in education or mathematicians interested in finding out about the field readers will obtain new insights about teaching and learning and will take away ideas that they can use Information for our distributors This series is published in cooperation with the Mathematical Association of America

Assessing Calculus Reform Efforts Alan Tucker, James R. C. Leitzel, 1995 Math Wars Carmen Latterell, 2004-12-30

This book is written for parents and other interested parties so that they can understand the great debate taking place in many states in this country about how to teach basic math The debate centers around the standards written by the National Council of Teachers of Mathematics NCTM which call for a radically different approach to mathematics education Because the issues are so heated between the NCTM oriented curricula and traditional curricula the curricula that NCTM oriented replaced the term Math Wars was coined to describe them Parents are concerned about their children's math learning Teachers are concerned about math teaching When parents see what children are bringing home under the new curriculum it is clear that their children are not working on the same mathematics that parents remember from the time when they were in school But the problem goes beyond grades K-12 Post secondary mathematics courses are the fear of many students The standards created by the NCTM do not necessarily prepare students for success either on SATs or in college Besides lack of knowledge about mathematics education many parents have an additional problem in that they feel they lack knowledge in mathematics itself This is very intimidating thus it is difficult for parents to do anything about the confusing state of mathematics education This book provides some answers

Exploring Signature Pedagogies Regan A. R. Gurung, Nancy L. Chick, Aeron Haynie, 2023-07-03 From the Foreword These authors have clearly shown the value in looking for the signature pedagogies of their disciplines Nothing uncovers hidden assumptions about desired knowledge skills and dispositions better than a careful examination of our most cherished practices The authors inspire specialists in other disciplines to do the same Furthermore they invite other colleagues to explore whether relatively new interdisciplinary fields such as Women's Studies and Global Studies have or should have a signature pedagogy consistent with their understanding of what it means to apprentice in these areas Anthony A. Ciccone Senior Scholar and Director Carnegie Academy for the Scholarship of Teaching and Learning How do individual disciplines foster deep learning and get students to think like disciplinary experts With contributions from the sciences humanities and the arts this book critically explores how to best foster student learning within and across the disciplines This book represents a major advance in the Scholarship of Teaching and Learning SoTL by moving beyond individual case studies best practices and the work of individual scholars to focus on

the unique content and characteristic pedagogies of major disciplines Each chapter begins by summarizing the SoTL literature on the pedagogies of a specific discipline and by examining and analyzing its traditional practices paying particular attention to how faculty evaluate success Each concludes by the articulating for its discipline the elements of a signature pedagogy that will improve teaching and learning and by offering an agenda for future research Each chapter explores what the pedagogical literature of the discipline suggests are the optimal ways to teach material in that field and to verify the resulting learning Each author is concerned about how to engage students in the ways of knowing the habits of mind and the values used by experts in his or her field Readers will not only benefit from the chapters most relevant to their disciplines As faculty members consider how their courses fit into the broader curriculum and relate to the other disciplines and design learning activities and goals not only within the discipline but also within the broader objectives of liberal education they will appreciate the cross disciplinary understandings this book affords

HK Cheap Eats Nicole Lade,2003-01-01 Hong Kong may be one of the world s most expensive cities but that doesn t mean you have to spend a lot of money on dining out Hong Kong Cheap Eats includes recommendations and reviews of over 250 good value restaurants located territory wide useful information about each restaurant as well as a quick reference guide at the back handy tips on how and where to eat cheaply a convenient pocket sized format for easy carrying Next time you are hungry in Hong Kong but don t want to break the bank pick up this guide for some independent advice about the best value restaurants this city has to offer

Project Impact - Disseminating Innovation in Undergraduate Education Ann McNeal,1998-02 Contains abstracts of innovative projects designed to improve undergraduate education in science mathematics engineering and technology Descriptions are organized by discipline and include projects in astronomy biology chemistry computer science engineering geological sciences mathematics physics and social sciences as well as a selection of interdisciplinary projects Each abstract includes a description of the project published and other instructional materials additional products of the project and information on the principal investigator and participating institutions

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How Students Make Meaning in a Reform Calculus Course Jeffrey Scott Strickland,1999

Preparing for a New Calculus Anita E. Solow,1994

Calculus, Catalyzing a National Community for Reform William E. Haver,1998

Assessment Practices in Undergraduate Mathematics Bonnie Gold,Sandra Keith,William A. Marion,1999 The collection of 72 articles offers the mathematics teacher suggestions for assessing testing and grading teaching efficacy how departments place students into courses the effectiveness of the major and the quantitative literacy of the graduating students Lacks an index Annotation c Book New

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