

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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