

Examples in Advanced Calculus and Scientific Workplace

Wei-Chi Yang

Department of Mathematics and Statistics

Radford University, Radford, VA 24142

e-mail: wyang@runet.edu

Abstract

We have been talking about the use of computer algebra systems in teaching calculus. I believe we should pay attention to the incorporation of CAS in post calculus courses. In this note I shall demonstrate how easy it is to create teaching materials to enhance students' learning with the help of Scientific Workplace in Advanced Calculus.

1 Introduction

Abstract and complex concepts can be taught and experimented with the help of computer algebra systems. Especially, a difficult course such as Advanced Calculus, teachers usually want students to imagine what a complex plot would look like, which may not be so trivial. In this note, I use the following examples in Advanced Calculus with the help of Scientific Workplace(SWP) to demonstrate how the computer algebra system can be used to enhance students' learning. We note that SWP is not only a wordprocessor but also a computational tool. Thus it can be used in experimenting mathematics without requiring users to learn Latex and Maple syntax.

2 How do we experiment and construct a function which is nowhere differentiable but everywhere continuous?

In advanced calculus, we learned that if

$$f(x) = \sum_{k=1}^{\infty} a^k \cos b^k \pi x$$

where a and b satisfy certain relationship, then we can prove that the function is nowhere differentiable but continuous everywhere. In this note we shall use the graphing approaches to discover how the behavior of a/b will lead us to a desired

Doing Calculus In Scientific Workplace

Jin-Ying Zhang



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