qCDCq
Austrian Center for Didactics of Computer Algebra

Maple and the Abstraction Process

Kiki Ariyanti Sugeng
(Dept. of Mathematics / University of Indonesia, Depok 16424, Indonesia)

Open PDF-File: g_ariyan.pdf   (94 KB)

Abstract:

This paper is motivated by the difficulties of student to make the graph of two variables functions. In many cases, using dynamical visualization can do introduction of a new concept and an abstraction process. Most of the student learns the new concept by generalizing from the examples. The objective of this paper is to share experiences in teaching with Maple. Maple is used to solve the student problem in understanding abstraction process. The student should know that the abstraction process is important for development of mathematics and they will learn about this with technology help. We must try very hard to implement visual mathematics curriculum.