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Självständigt arbete i matematik

Matematiska institutionen

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Julia Tsygan: On the Use of History in Calculus Education

Sammanfattning

Mathematics has history, but mathematical concepts and methods are often taught as if they were eternal truths independent of people and culture. The purpose of this paper is to show how calculus education can benefit with inspiration from the history of calculus. There are two main parts in this paper. The first part deals with the history of calculus starting with functions and continuing with limits and continuity, differentiation, and integration. In the second part I suggest some reasons and methods for, as well as problems with, integrating the history of calculus with education.