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Abordagens de ensino para conceitos do cálculo diferencial e integral [

2015

text (article)

Analítica

This paper deals with teaching approaches of function, continuity, differentiability and differential equations. These approaches are referenced in theoretical elements developed by Tall and his colleagues. For the concepts of continuity and differentiability, it is explored the notion of local straightness which helps to develop a formal conceptualization. It is emphasized an example of a continuous everywhere but differentiable nowhere function. For the concept differential equation y' = f(x, y) is explored a qualitative approach to seeking the solutions, which begins from the analysis of their field directions. A common feature of these approaches is the use of the computer. We expected that the article may contribute to spread the Tall's work between the teachers and/or researchers involved with the teaching of calculus
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Baratz Innovación Documental

- Gran Vía, 59 28013 Madrid
- (+34) 91 456 03 60
- informa@baratz.es