

Ações do professor para a promoção do raciocínio matemático em aulas de cálculo diferencial e integral [

2023

text (article)

Analítica

Considering the development of reasoning as a central aspect in the process of learning mathematics, understanding ways to promote it and actions performed by the teacher in this process are important issues for investigations. In order to deepen these discussions, this article aims to understand how teacher's actions can contribute to mathematical reasoning students' development who study differential and integral calculus. Assuming a qualitative perspective of interpretative nature, we analyzed a class of this subject, in which it was promoted a discussion about an exploratory task involving a water and salt mixture concentration varying by the time, and, from it was introduced the concept of rational function and its long-run behavior. Six class excerpts are analyzed, based on a framework which classifies teacher's actions from four categories (inviting; guiding/ supporting; informing/suggesting; and challenging). As results, we recognized a continuous and increasing movement in the teacher's actions during the conduct of the discussion, highlighting the implications for the mathematical reasoning students' development and the concept of rational function understanding Considering the development of reasoning as a central aspect in the process of learning mathematics, understanding ways to promote it and actions performed by the teacher in this process are important issues for investigations. In order to deepen these discussions, this article aims to understand how teacher's actions can contribute to mathematical reasoning students' development who study differential and integral calculus. Assuming a qualitative perspective of interpretative nature, we analyzed a class of this subject, in which it was promoted a discussion about an exploratory task involving a water and salt mixture concentration varying by the time, and, from it was introduced the concept of rational function and its long-run behavior. Six class excerpts are analyzed, based on a framework which classifies teacher's actions from four categories (inviting; guiding/ supporting; informing/suggesting; and challenging). As results, we recognized a continuous and increasing movement in the teacher's actions during the conduct of the discussion, highlighting the implications for the mathematical reasoning students' development and the concept of rational function understanding

https://rebiunoda.pro.baratznet.cloud:38443/OpacDiscovery/public/catalog/detail/b2FpOmNlbGVicmF0aW9uOmVzLmJhcmF0ei5yZW4vMzQ5Nzg4ODY2LmJhcmF0

Título: Ações do professor para a promoção do raciocínio matemático em aulas de cálculo diferencial e integral electronic resource]

Editorial: 2023

Tipo Audiovisual: Ensino de matemática Ensino de cálculo diferencial e integral Raciocínio matemático Ações do professor Mathematics teaching Differential and integral calculus teaching Mathematical reasoning Teacher's actions

Documento fuente: Educação e Pesquisa: Revista da Faculdade de Educação da Universidade de São Paulo, ISSN

1678-4634, Vol. 49, N°. 1, 2023

Nota general: application/pdf

Restricciones de acceso: Open access content. Open access content star

Condiciones de uso y reproducción: LICENCIA DE USO: Los documentos a texto completo incluidos en Dialnet son de acceso libre y propiedad de sus autores y/o editores. Por tanto, cualquier acto de reproducción, distribución, comunicación pública y/o transformación total o parcial requiere el consentimiento expreso y escrito de aquéllos. Cualquier enlace al texto completo de estos documentos deberá hacerse a través de la URL oficial de éstos en Dialnet. Más información: https://dialnet.unirioja.es/info/derechosOAI | INTELLECTUAL PROPERTY RIGHTS STATEMENT: Full text documents hosted by Dialnet are protected by copyright and/or related rights. This digital object is accessible without charge, but its use is subject to the licensing conditions set by its authors or editors. Unless expressly stated otherwise in the licensing conditions, you are free to linking, browsing, printing and making a copy for your own personal purposes. All other acts of reproduction and communication to the public are subject to the licensing conditions expressed by editors and authors and require consent from them. Any link to this document should be made using its official URL in Dialnet. More info: https://dialnet.unirioja.es/info/derechosOAI

Lengua: Portuguese

Enlace a fuente de información: Educação e Pesquisa: Revista da Faculdade de Educação da Universidade de São Paulo, ISSN 1678-4634, Vol. 49, N°. 1, 2023

Baratz Innovación Documental

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