

「19世紀末大不況」期における景気循環の跛行性について

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The Different Trend of the Trade Cycles of Each National Economy during the Great Depression in the Late 19th Century

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The problem in this paper is the elucidation of the different trend of the trade cycles between the British economy and the world economy which is affected by not only the British economy but also the industrial accumulations in the other capitalist economies that started lately.

In the trade cycle that the central point was the economic crisis in 1873 which was the last one in the industrial capital stage, the different trend of the trade cycles between British economy and world economy, especially U.S. and Germany which were industrializing rapidly, already appeared. The trade cycles of the national economies had the different trends during the great depression in the late 19th century, especially the trade cycles in Britain influenced those one in the countries that had started lately. The integrated development of each capitalist country did not exist during the great depression in the late 19th century.

凸している凹関数の困惑解消と実際応用

張 興和

Quandary resolution about the concave function and its application

Xinghe Zhang

要旨

関数の凹凸性は数学の重要な概念であり、現在最適化問題の目的関数として自然科学や社会科学の多くの分野で幅広く応用されている。

本論文では関数の凹凸性の教育に存在する問題点を整理し、関数とグラフとが結び付く直感性強化型教授法を提案している。一変数微分可能な関数の凹凸性と単調性の判別法とその性質の応用を典型的な関数を例に出来るだけ分かりやすく説明し、凹関数の実際への応用と数値解析法を紹介した。

凹凸関数の学習者が持っている困惑を解消し、凹凸関数の有用性を実感しながら数学への関心を深めるのに少しでも役に立つことを期待している。

Abstract

Concave and convex are important concepts in the mathematics. They are widely applied in optimization process both by natural science and social science.

In this article, how to make it easier to understand concave and convex of a function for students is discussed. An intuitive teaching way, to connect the function with its graph, was proposed. Using simply but typical functions as examples, how to discriminate and use a function's concave (or convex) and its monotonicity are explained as easy as we can. At same time, the method of numerical analyses with complex function which is applied in research is discussed and the usefulness of concave function is also introduced.

I hope this paper is useful to enlighten understanding difficulties about concave and convex to students, therefore they can find useful of concave (and convex) function and deepen their interest in mathematics.

Pursuing the Ability to Transform Oneself through Reflection: Eight Month Longitudinal Qualitative Research on Cognitive Growth of Two Pre-service Teachers

Masahiro Saito

論文概要

日本における教師教育は分岐点に差し掛かっている。今までの大学における教師教育は現場の要請に応えられるものではなかったということを前提に、「実践的指導力」の養成が教職課程を開設されている全ての大学に求められている。しかし「実践的指導力」とはきわめて曖昧な概念である。現場の教員、教師教育を担当する大学教員、研究者がそれぞれの「実践的指導力」を追及しているのが実情である。

本研究では、「内省を通じた変わる力」を「実践的指導力」と定義づけ、2007年度に本学の開講講座である教職ゼミを履修した2名の学生の現場実習とその内省から、「変わる力」の獲得の過程を質的調査によって検証する。

夏目漱石『それから』で描かれた女性表象
— 三千代の「自我」—

片 山 礼 子

Self of woman representation-Michiyo whom it was from
Soseki Natsume "Sorekara",and was drawn

Reiko Katayama

It was late yeays,and "self",these words attracted attention widely.

How will "self"as representation of heroines drawn on a literary work
about self-consciousness as one symbol in the Meiji period have been taken up?

I have eyes and do in particular a note of consideration in "from Soseki Natsume,ineitial trilogy
it"about" self"in modern times by this report.

"Sorekara"it is a serial story in a newspaper published serially from June,1909 to October.

"Sorekara"then,according to "the notice"of Soseki,I do it in various meanings.

By the main subject,existence of Suganuma,lily-consider the symbolism-led
by "self"of Michiyo's that they showed eaylier.