



Improvement of methodological preparation of the mathematics teacher by a training technique to a subject on an innovative basis

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ABSTRACT

Methodical science teaching mathematics covers all stages of mathematical education. Lesson methodology has affected the work of mathematics teachers and academics. Hence the importance of methodical preparation of teachers of mathematics and their means of methodic knowledge. Modern mathematics teacher must know the components of the methodology, the methodology of mathematics and learn the methodology of scientific research, learning theory and its applications. This will require the need for special analysis methodology of teaching mathematics. The urgency of this challenge is increased by the ideas of innovation research.

Key words: Methodology of mathematics, methodology, methodology, teacher training, pedagogical innovation, methodological training of mathematics teachers in an innovative manner.



INTRODUCTION

The methodical science to training to mathematics covers all steps of mathematical education. Occupation by a technique became daily work of mathematics teachers and teachers of higher education institutions. Therefore methodical preparation of mathematics teachers and their arms methodological knowledge has great importance [1,2].

The modern mathematics teachers should know components methodology of a technique of mathematics, seize methodology of scientific search, the theory of training and its appendix. All this will demand about need of the special analysis methodology of training of mathematics. The urgency of this complex problem increases in connection with ideas of an innovation of scientific research.

Scientific novelty of the project consists in that that, in methodical scientific researches on mathematics the problem of methodological preparation of teachers by a training technique to mathematics on an innovative basis for the first time is put [3,4].

Methodical and methodological preparation of the teacher begins with studying of a subject of a technique of training of mathematics. However in

educational and methodical grants by a training technique to mathematics the technique methodology is insufficiently reflected. In them the subject and object of a methodical science doesn't reveal, research methods are superficially described, don't supply information on promotion of hypotheses of designing of forecasts, development and statement of the solution of a methodical problem of carrying out experimental work, etc. Therefore results of research quality of manuals by a technique of mathematics and, finally, on increase of methodological preparation of mathematics teachers will affect improvement [5,6].

From the second half of the last century the training technique to mathematics was created, as independent scientific area. There are the works investigating object, a subject of a methodical science, methodological justification of a subject of a technique, is entered concept of methodical system of training to mathematics, it is entered modern philosophical ideas of mathematics of problem of quality of education [7,8].

To methodological reasonable technique of training to mathematics in Kazakhstan separate researches, however there are without the answer more many questions, including methodological preparation of mathematics teachers [9]. Results of the scientific project promote improvement of quality of manuals

by a mathematics technique on methodological justification of a subject and, finally, to improvement of methodological preparation of mathematics teachers [10].

Project purpose: Theoretical substantiation and development of innovative technologies for improving the methodological training of teachers of mathematics.

Expected results

- Methodologically based subject of a technique of training to mathematics; Definition of concept of methodology of a technique of mathematics, subject and object and др; Educational and methodical complex of a special course «Training methodology to mathematics»; special course Manual «Training methodology to mathematics».
- The received results of research will be will be applied in pedagogical educational institutions and teachers of schools, scientists by a training technique to mathematics.
- publications: scientific articles, manual, electronic textbooks

The practical importance of this scientific project is defined by that the result of research will be directly applied at creation of modern textbooks and educational a grant on training techniques to mathematics and teachers of daily practical activities.

The scientific importance of the project is defined by that will be studied for the first time a theoretical basis and ways of practical realization innovative reasonable methodological preparation of teachers to mathematics.

Innovative and competitive advantages of the scientific project it is caused by a comprehensive approach that allows to realize for the first time the scientific program directed on definition of concept of methodology of a technique of mathematics, object and a subject, exact understanding of the technique directed on scientific search in a technique of training to mathematics, a ratio of the theory and practice of training to mathematics. All these and other questions of methodology of a technique didn't find due permission in the Kazakhstan theory and practice of a methodical science.

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