

THE STUDY ON THE APPLICATION OF MATHEMATICAL THINKING METHODS IN TEACHING MATHEMATICS IN MIDDLE SCHOOL

Yang Lin Yanzhi He*

Department of Mathematics, College of Science, Yanbian University, Yanji 133002, CHINA

ABSTRACT

With the implementation and development of the new curriculum reform, it is required to pay attention to the quality education of students and promote the individualized development and comprehensive development of students. In the process of teaching junior high school mathematics, it is necessary to strengthen the cultivation of students' mathematical thinking ability and practical ability, mainly focusing on the cultivation of students' mathematical thinking methods, guiding students to master and use mathematical thinking methods to learn mathematical knowledge and solve mathematical problems. Mathematical thinking methods are the essence of mathematical knowledge, which is an important tool for students to transform mathematical knowledge into their own ability. This paper discusses the specific use of the four important mathematical methods of thought, namely, regression, combination of numbers and shapes, classification discussion, and equations and functions, in the teaching practice of junior high school, in order to provide ideas for the cultivation of students' mathematical methods of thought.

Keywords: Mathematical ideas; mathematical methods; teaching.