THE ROLE OF THE GRAPHIC DISPLAY CALCULATOR IN FORMING CONJECTURES ON THE BASIS OF A SPECIAL KIND OF SYSTEMS OF LINEAR EQUATIONS

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ABSTRACT. A graphic display calculator (GDC) was introduced to mathematical education in the 90s’ of the last century. Since then a great deal of scientists and teachers have suggested that this portable device could be applied effectively in the process of teaching and learning mathematics. The aim of this paper is to analyze the process of forming conjectures on the base of some special systems of linear equations in respect of the usage of technology. The researched group consisted of students between the age of 17 and 19, who used GDC as a mandatory device during learning mathematics. The results will be compared with some presented in the paper [1] where one can find different kinds of GDC applications in the process of learning mathematics and the process of generalization with GDC usage analyzed in [4] where visual template tasks were taken into consideration.

KEYWORDS: graphic display calculator, mathematics learning, forming conjectures, generalization, International Baccalaureate Diploma Programme

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