

Mathematical Education in the Network Environment

Abstract. The transition to the new educational paradigm in mathematical education is associated with the widespread introduction of information and communication technologies in education. The traditional teaching forms, methods, means and content do not seem to correspond with the new paradigm and need the theoretical reconsideration. In author's opinion, it should be based on the post-non-classical methodology incorporating the synergetic world outlook and soft modeling ideas. The modern educational environment and network space provide the vast opportunities for self-study and self-education. However, the data perception tends to become nonlinear; and the task of the school, in this case, is to provide the nonlinear systemization of educational information through self-organized systems. The Author argues that the problem solving should remain the main activity in mathematics teaching, especially for the students of mathematical profile; the projecting activity should not dominate and prevail over the problem solving.

Keywords: informatization of education, self-education, synergetics, soft modeling, network projects, mathematics education.

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