

ABSTRACT

The thesis focuses on how students work with the absolute value and on the strategies of students' search for equations from graphs of functions.

The aim of the thesis is to describe solution processes and the most common mistakes of students in searching for the equations as well as finding out how students understand the absolute value and how they work with the absolute value in solving the problems.

The first, theoretical part, is the analysis of textbooks, RVP and graduations tests on given topics and a summary of selected researches on this topic.

The second, research part, is devoted to the description and analysis of own research that was carried out on high school students.

The final chapter summarizes the results of the research and compares these results with the theoretical part of this work.