

The presented work is intended to serve as a teaching material in particular for pupils of the first year of secondary school, focusing on the basic knowledge of mathematics. The first part of the thesis is devoted to an analysis of existing web page, which corresponds to the theme of the diploma thesis. The evaluation takes into account the expertise as well as the scope of use of interactive elements. In the next part, the created teaching material in a form of web page is presented. It deals with the subject matter of powers, roots, polynomials and rational expressions. In accordance with current trend, the emphasis is put on both visualisation of curriculum (charts, use of graphics) and interactivity. All exercises to practise involve solution, therefore users are allowed to gain immediate feedback and thus to study individually. Web page is free available.