

Title: Web application for teaching of higher degree algebraic equations at secondary school
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Abstract: Bachelor thesis is devoted to the subject of algebraic equations of higher degrees. The work should serve mainly as an extension teaching material for secondary school students or as an accompanying textbook for teachers of mathematics in high school seminary. The first part deals with the repetition of polynomials, linear and quadratic equations. The main chapters are cubic, binomial, trinomial and reciprocal equation. For each type of equations is given short theory and solved examples. At the end of each chapter are unresolved tasks and exercises that are designed to verify the acquired knowledge. The work is processed in the form of Web pages that are available on the Internet. It makes the work available to everyone and also allows the use of interactive elements such as GeoGebra applets, solve the tasks step-by-step or hide the solutions.