

The first part of the Thesis looks at, examines and evaluates existing czech and english web pages dedicated to coordinate geometry studies. Based on this research, in the second part new web pages are created, which focus on coordinate geometry studies of secondary school level. They try to overlook any mistakes found and on the contrary look for inspiration in what was valuable and interesting. The text covers the following topics: Cartesian coordinates, vectors, coordinate geometry in 2D, coordinate geometry in 3D, conic sections and sphere. The web pages above all contain definitions, statements and their proofs. All is supported by tens of schematic pictures, cross references, index of definitions and dynamic Java applets. Students can test their knowledge directly in Java applets, through selection of solved exercises or by using generated tests.