

The thesis deals with the possibilities of using internet in teaching trigonometry. It is divided into two parts.

Already existing web sites are the topic of the first part. Sites which were found are briefly described and classified. At the end of this part, table with criteria used for classification of the sites is stated.

Second part of the thesis consists of new web sites concerning trigonometry. Goniometric functions with their graphs, evaluating of values, definitions by unit circle, etc. are included. Interactive elements are implemented as Java applets. Applets are also heavily used for illustrating trigonometric section of web sites. This section includes trigonometric theorems with proofs and exercises which use them in solutions.

Proofs and exercises are supplemented by Java scripts which stepwise reveal help.