

This bachelor thesis shows various examples of applications of the Euler number in school mathematics. Also, it introduces logarithm as a computational tool, it deals with logarithmic tables and importance of the natural logarithm, both historically and mathematically. Special emphasis is put on the connection between the hyperbola and the natural logarithm. Furthermore, the thesis deals with various ways of defining the number e and its approximations (e.g., as a sum of a sequence or as a continued fraction). A few examples illustrating the importance of the number e for various areas of mathematics are presented. Finally, the thesis presents some important properties of the Euler number.