

European Virtual Laboratory of Mathematics



www.evlm.stuba.sk

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Laboratory
of Mathematics

Leonardo da Vinci
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Project Outline

The European Virtual Laboratory of Mathematics (EVLM) is a European project in the Leonardo da Vinci programme of the European Commission scheme for Education and Science, which is focused on the teaching and training needs of those involved in vocational education and training.

The aim of EVLM is to promote better understanding and utilization of mathematical knowledge, to promote e-learning in Mathematics, to provide solutions for different target groups and help for teachers and trainers to enhance their skill in using the most advanced educational tools and environments.



EVLM is comprised of a network of National Centres of Mathematics located at seven partner institutes throughout Europe.

A range of online resources are provided by EVLM to support and enhance the teaching of mathematics in secondary schools and higher education. EVLM also aims to support the research needs of individuals in a number of areas including mathematics, statistics and mathematics education.



Each National Centre hosts a portal in the respective national language providing a virtual database of mathematical resources and e-learning materials available from the partner institutions and other sources such as previously EU funded projects.

In addition, the National Centres offer consultancy services to those wishing to learn about the latest results in mathematics and mathematics teaching.

Communication between the project team will ensure that any request for assistance and consultancy will be dealt with by the partner with the most relevant expertise. Feedback is invited and welcomed from all users of EVLM to assist in the quality control process.

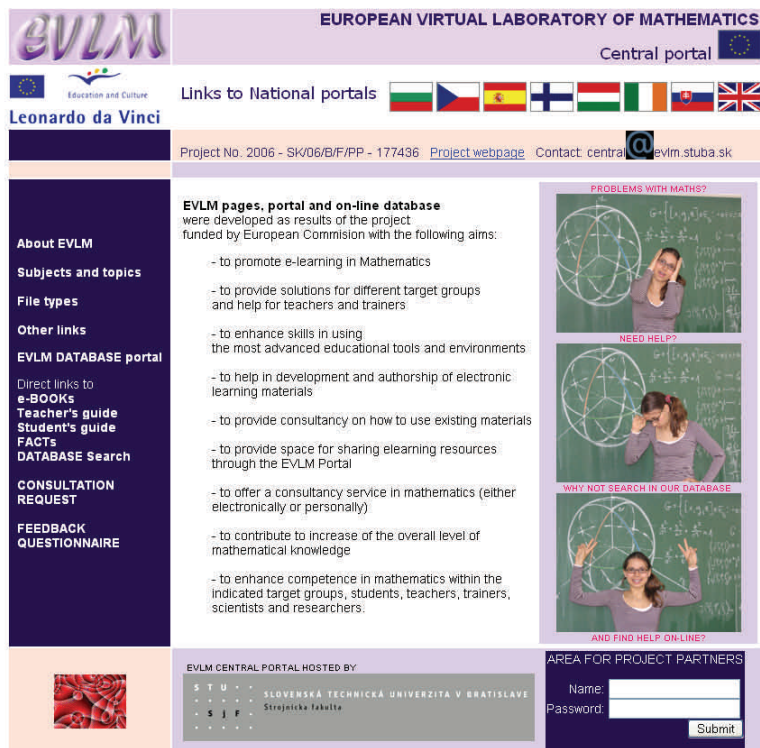
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EVLM Central Portal

The EVLM Central Portal provides basic information about materials available in the EVLM Central Database. Information such as the subject, the topic covered within each subject category and relevant file types is provided to make navigating the Central Portal easier.

In addition, two didactic guides for teachers of mathematics and students of mathematics are provided to act as standalone resources to aid in either the teaching or study of mathematics.

Links to other relevant databases and electronic learning material on the web are also provided. An electronic form for the submission of an online consultancy request as well as a users' feedback questionnaire to support evaluation of the portal quality are also available on the Central Portal.



The EVLM Central Database provides free access to different e-learning educational material in mathematics covering the following subject areas:

- Fundamental Mathematics
- Algebra
- Calculus
- Geometry
- Optimisation
- Numerical Analysis
- Difference and Differential Equations
- Multivariable Calculus
- Probability and Statistics
- History of Mathematics
- Maths Games

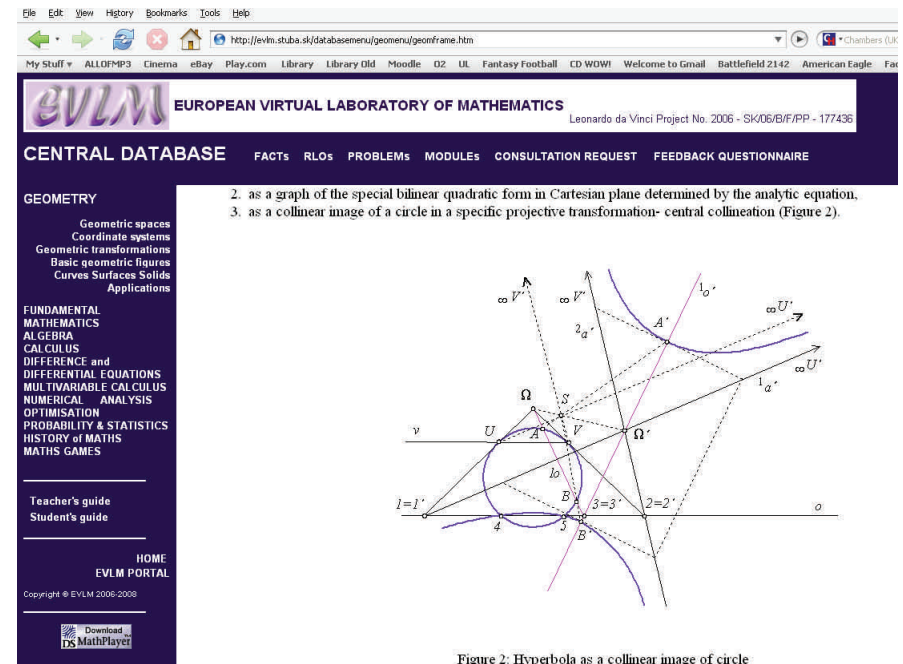


Figure 2: Hyperbola as a collinear image of circle

Within each mathematical subject area a selection of frequently asked consultation topics (FACTs), reusable learning objects (RLOs), related problems and modules is provided to facilitate easier navigation within the database.