

List of abstracts of posters

RITA NAGY-KONDOR - TURGUT MELIH: *Spatial ability of Hungarian and Turkish prospective mathematics teachers*

In this paper we investigate and compare spatial abilities of prospective elementary mathematics teachers from Hungary and Turkey. We prepared the tests in a way that it contained the important components of the spatial ability (imaginary manipulation of the object, projection description and projection reading, reconstruction, transparency of the structure). By right of the curriculum of the two countries we can say that for teaching the spatial geometry small time has left in both countries. The results of the survey verify that many students have problems with imagining a spatial figure and therefore to solve the spatial geometry exercises. In the future we plan to make special interactive worksheet to develop of spatial ability.

RITA NAGY-KONDOR - GUSZTÁV ÁRON SZÍKI: *GeoGebra animations for the course book "Mathematical tools in engineering applications"*

It is five years now that we have published the course book "Mathematical tools in engineering applications". This book demonstrates the application of mathematical tools (vectors, matrices, linear functions and complex numbers) on problems that are typical in the field of Physics, Technical Mechanics, Thermodynamics and Electrical Engineering. This year we intend to publish the second part of the book in the same form and with the same build up as the first one. To help the students to understand the engineering content and also its relationship with the mathematical content more easily we built GeoGebra animations into the book. We present examples to these animations with the related engineering problems here.

ADRIENN VINCZÉNÉ-VARGA - CSABA KÉZI - ERIKA PERGE: *Colours, numbers, shapes, motions - aspects of engineering*

The Department of Basic Courses of Technology at Faculty of Engineering (University of Debrecen) organized a series of meetings for students in secondary schools. The aim of the project is to familiarize and propagate the programs of Faculty of Engineering. The meetings are organized and delivered by the members of the staff of the Department. The poster contains the short descriptions of the components of our project together with some photographic documentation.