Title:

The methodology of high-quality 3D-drawing compatible to LaTeX graphics capabilities

Abstract:

Since LaTeX is widely used to edit teaching materials in collegiate mathematics classes, it is desirable for teachers to be able to generate high-quality graphical images in LaTeX documents. On the one hand, the monochrome line drawing of KETpic serves a powerful tool to generate high-quality 2D-graphics in LaTeX printed materials. On the other, the 3D-graphicas capability of KETpic should have been more developed compared to the 3D-rendering capabilities of CAS/DGS. In this presentation, we show some examples of the elaborative use of KETpic command "Shade" to generate 3D-rendering-like graphics which is in no way inferior to CAS/DGS graphical outputs.

Keywords: KETpic,   printed   class   materials,   monochrome   line   drawing,
                   3D-rendering-like graphics,

(This presentation should be included into the working group
                                   "Making Materials Based on TEX and CAS/DGS")