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## GEUP 3D 2

### Construction and interactive calculation and visualization

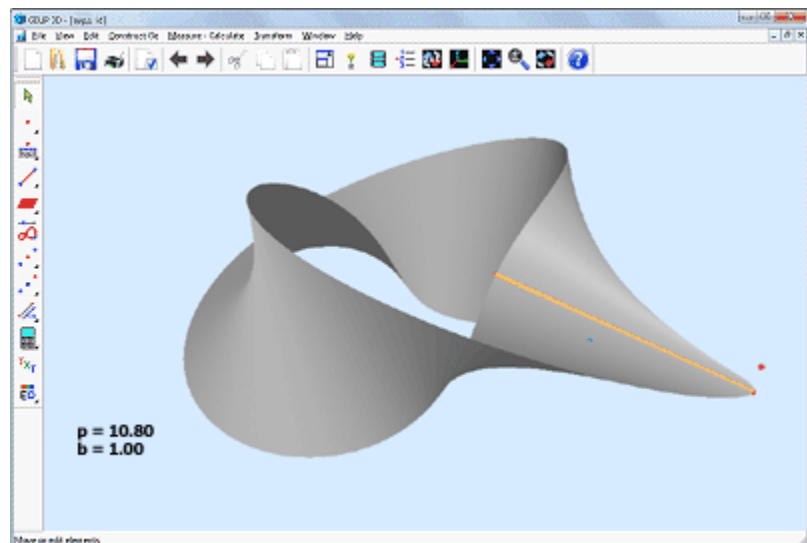
GEUP 3D 2 is an interactive solid geometry software for math calculation and visualization. It allows to create dynamic and general constructions/applications visually by defining math elements. GEUP 3D allows the modification of the construction visually (directly in screen) and it calculates each one of its particular cases in real time. GEUP 3D 2 is the equivalent of GEUP 5 in the 3D space. The range of application of GEUP 3D is very wide, next its main applications are described.

### Solid geometry

Three-dimensional solid geometry is an unexplored area of Mathematics in comparison with the plane geometry due in part to the lack of experimentation environments. GEUP 3D provides a powerful interactive tool to study this field.

### Algebra, Calculus and interactive Mathematics

As GEUP 5, GEUP 3D 2 provides a versatile math environment. It is particularly useful the construction of curves and surfaces obtained geometrically or by using analytic properties.



### Science and Engineering/Industrial design

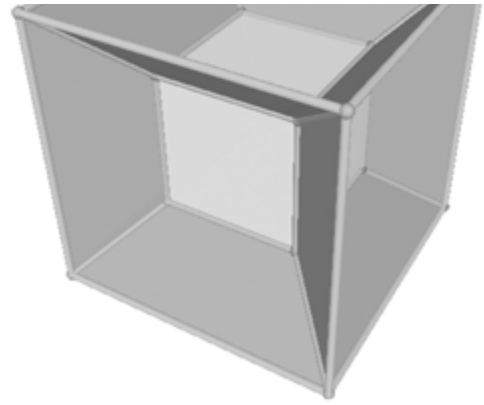
GEUP 3D 2 is very useful as calculation and simulation tool in Physics, Engineering/Industrial design to study mathematical models of real world. Also, the interactive construction, calculation and visualization, provides new ways to study these fields.

### Main features

- Capability to apply in solid, analytical, transformational geometry.
- Capability to construct the basics geometric elements: point, line, circle, polygon(including regular polygon), polyhedron, sphere.
- It allows to modify the geometric elements dynamically, reforming very fast the construction.
- Calculate fast and precise loci (curves and surfaces).
- Geometric transformations: central symmetry, axial symmetry, translation, rotation.
- It calculates functions of construction measures, being able to use these values in any construction step.



- Capability to define parameters with visual variation.
- Dialog box to plot points.
- Construction list.
- Capability of dynamic visualization of the 3D space (rotation, zoom in/out, translation).
- Automatic selection of points.
- Capability to edit and modify the construction at any step.
- Capability to print any area of the defined plane and change the scale.
- Easy to learn and easy to use.
- Fully customizable. It includes multi-language support



## What's new in version 2

The main new features in version 2:

- **Multiple edition of elements(size/shape)**
- **Circle center**
- **Vector sum**
- **Arcs**
- **Points redefinition**
- **Calculations redefinition**
- **Surfaces defined by points depending on points on polygons (parallelogram)**
- **Greek letters in text**
- **Hidden/selected elements color as document option**

## System requirements

Microsoft Windows 7/Vista/XP/2000/NT4/ME/98/95, RAM and processor requirements are the same as the operating system requirements, and at least 7MB of free hard disk space.

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