

Teaching of Geometry with GeoGebra software in students of the Primary Education Degree

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Abstract:

From our teaching experience in Primary School teacher training, it is very common that the future teachers have got numerous difficulties about geometrical concepts. Most of the students are not capable to visualize representations in the plane, much less in space. Possibly these difficulties are a consequence of a training based on memoristic learning of the different definitions, properties and formulas, without experimenting with any didactic resource for the acquisition of significant learning.

In order to solve this situation, we introduce the GeoGebra software in our teaching as a tool that could help to improve capabilities for reasoning and verifications, mathematical communication, problem-solving and understanding of concepts in Geometry.

This contribution present different classroom experiences about the didactic use of GeoGebra for teaching and learning Geometry in students of the Primary Education Degree. The objectives of the experience are, on the one hand, to encourage the use of GeoGebra, to improve the acquisition of geometric concepts and, at the same time, acquire knowledge about the difficulties and mistakes they make in their learning and in the use of this didactic tool; and on the other, encourage modes of action that will be useful in their professional life as teachers in *the digital era*.