

Discovering in DGE — A case study

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The article has a form of a case study. The authors define an open geometrical problem - to determine properties of a third degree's curve [2]. The curve occurs as a locus of foci of conics which are tangent to a given quadrilateral. The problem was solved with the aid of Dynamic Geometry System. At the first stage some facts were discovered experimentally [1]. Subsequently their logical connections were established [3]. The main goal of the article is to highlight the experimental phase, which does not depend on visual perception only, but is illuminated by subject's logic, knowledge and experience. This interweaving (tools of the software and suitable strategy of the subject) has self-strengthening effect enabling to solve tasks, which are out of reach of the subject by classical means.

Keywords

Dynamic geometry, Cubic curves, Experiments in DGE

References

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