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Abstracts of Short Communications and Posters

Section:

18. Teaching and Popularization of Mathematics

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Additional Computer Geometry courses for advanced students

The development of technology demands permanent modernization of school mathematics. We propose additional courses for advanced students: "Computer Geometry". It includes discussion of well-known geometrical problems mainly Steiner problem, Voronoj problem, elements of fractal theory and elements of percolation theory etc. We choose these problems because of:

1. . The conditions of these problems don't demand studying the special part of mathematics,
2. . Discussion of the problems permits to relate the notions of abstract and concrete,
3. . Students can see the role of interface and processor speed.

(Computer languages Pascal, C , Mathematica 2.2, Mathematica 3.0