

Pech, Pavel

The harmonic analysis of polygons and Napoleon's theorem. (English) Zbl 0991.51009
[J. Geom. Graph. 5, No. 1, 13-22 \(2001\)](#).

Summary: Plane closed polygons are harmonically analysed, i.e., they are expressed in the form of the sum of fundamental k -regular polygons. From this point of view Napoleon's theorem and its generalization, the so-called Theorem of Petr, are studied. By means of Petr's theorem the fundamental polygons of an arbitrary polygon are found geometrically.

MSC:

[51M20](#) Polyhedra and polytopes; regular figures, division of spaces

Cited in **5** Documents

Keywords:

[Napoleon's theorem](#); [theorem of Petr](#); [polygon](#)

Full Text: [EMIS](#)