
Zbl 843.52011

Erdős, Paul

Distances in convex polygons. (In English)

Geombinatorics 1, No.3, 4 (1991).

Let $x_1, \ldots, x_n$ be the vertices of a convex n-gon. Then the number of distinct distances $d(x_i, x_j)$, $1 \leq i, j \leq n$ is at least $[n/2]$ (Erdős problem; proved by *E. Altman*, Am. Math. Mon. 70, 148- 157 (1963; Zbl 189.22904)).
The author formulates some analogous problems about distances in convex polygons and polyhedrons with reference to other investigations.

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Classification:
52C10 Erdoes problems and related topics of discrete geometry
52A40 Geometric inequalities, etc. (convex geometry)

Keywords:
Erdős problems; distance problems