Erdős, Paul; Soifer, Alexander

Articles of (and about)

Triangles in convex polygons. (In English)

Geombinatorics 2, No.4, 72-74 (1993).

The authors pose the following "maximin" problem.

Determine  $\Delta(n,k) := \max(\min \Delta(V))$ . Here V is a finite set of n+k points in the Euclidean plane such that the convex hull conv V of V has area 1 and n points of V are vertices of conv V, the other k points lying in the interior of conv V.  $\min \Delta(V)$  denotes the minimum area of a triangle with vertices in V, and the maximum is taken over all such sets V.

B.Kind (Bochum)

## Classification:

52A10 Convex sets in 2 dimensions (including convex curves)

52A40 Geometric inequalities, etc. (convex geometry)

## Keywords:

triangles in convex polygons