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Erdős, Paul; Fishburn, Peter

A postscript on distances in convex n -gons. (In English)

Discrete Comput. Geom. 11, No.1, 111-117 (1994). [0179-5376]

Denote by $g(n)$ the largest k such that every convex polygon with n vertices has a vertex x for which the next k vertices clockwise from x or the next k vertices counterclockwise from x are successively farther from x . The authors prove that $g(n) = \lfloor n/3 \rfloor + 1$ for $n \geq 4$.

S.S.Kutateladze (Novosibirsk)

Classification:

52A37 Other problems of combinatorial convexity

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distance; convex polygon