Let $f(n)$ be the largest integer for which there are n distinct points $x_1, \ldots, x_n$ in the plane so that for every i, $1 \leq i \leq n$ there are at least $f(n)$ points x_j, $1 \leq j \leq n$ equidistant from x_i.

The author asks for an improved estimation for $f(n)$ (and offers a price).

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52C10 Erdoes problems and related topics of discrete geometry

52A40 Geometric inequalities, etc. (convex geometry)

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