

20. Suppose $k \geq 1/2 + \sqrt{2n}$. Consider a point P in S . There are at least k points in S having all the same distance to P , so there are at least $\binom{k}{2}$ pairs of points A, B with $AP = BP$. Since this is true for every point $P \in S$, there are at least $n \binom{k}{2}$ triples of points (A, B, P) for which $AP = BP$ holds. However,

$$\begin{aligned} n \binom{k}{2} &= n \frac{k(k-1)}{2} \geq \frac{n}{2} \left(\sqrt{2n} + \frac{1}{2} \right) \left(\sqrt{2n} - \frac{1}{2} \right) \\ &= \frac{n}{2} \left(2n - \frac{1}{4} \right) > n(n-1) = 2 \binom{n}{2}. \end{aligned}$$

Since $\binom{n}{2}$ is the number of all possible pairs (A, B) with $A, B \in S$, there must exist a pair of points A, B with more than two points P_i such that $AP_i = BP_i$. These points P_i are collinear (they lie on the perpendicular bisector of AB), contradicting condition (i).

Combinatorics Problems And Solutions

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