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,

$$n\binom{k}{2} = n\frac{k(k-1)}{2} \geq \frac{n}{2}\left(\sqrt{2n} + \frac{1}{2}\right)\left(\sqrt{2n} - \frac{1}{2}\right)$$

$$= \frac{n}{2}\left(2n - \frac{1}{4}\right) > n(n-1) = 2\binom{n}{2}.$$

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).

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   Combinatorics Problems and Solutions J Richard Hollos,Stefan Hollos,2024-04-20 This book will help you learn combinatorics in the most effective way possible through problem solving It contains 263 combinatorics problems with detailed solutions Combinatorics is the part of mathematics that involves counting It is therefore an essential part of anyone s mathematical toolkit The applications of combinatorics include probability cryptography error correcting games music and visual art In this new edition we have expanded the introductory section by more than twice the original size and the number of problems has grown by over 30% There are new sections on the pigeon hole principle and integer partitions with accompanying problems Many of the new problems are application oriented There are also new combinatorial geometry problems Someone with no prior exposure to combinatorics will find enough introductory material to quickly get a grasp of what combinatorics is all about and acquire the confidence to start tackling problems   **Problems & Solutions in Theoretical & Mathematical Physics: Introductory level** W.-H. Steeb,2003 This book is a collection of problems with detailed solutions which will prove valuable to students and research workers in mathematics physics engineering and other sciences The topics range in difficulty from elementary to advanced level Almost all the problems are solved in detail and most of them are self contained All relevant definitions are given Students can learn important principles and strategies required for problem solving Teachers will find this text useful as a supplement since important concepts and techniques are developed through the problems The material has been tested in the author s lectures given around the world The book is divided into two volumes Volume I presents the introductory problems for undergraduate and advanced undergraduate students In Volume II the more advanced problems together with detailed solutions are collected to meet the needs of graduate students and researchers The problems included cover most of the new fields in theoretical and mathematical physics such as Lax representation Backlund transformation soliton equations Lie algebra valued differential forms the Hirota technique the Painleve test the Bethe ansatz the Yang Baxter relation chaos fractals complexity etc   *Combinatorics Problems and Solutions* Stefan Hollos,J. Richard Hollos,2013-02-14 Introduction Problems Exercises   **Problems And Solutions In Theoretical And Mathematical Physics - Volume I: Introductory Level (Third Edition)** Willi-hans Steeb,2009-07-27 This book provides a comprehensive collection of problems together with their detailed solutions in the field of Theoretical and Mathematical Physics All modern fields in Theoretical and Mathematical Physics are covered It is the only book which covers all the new techniques and methods in theoretical and mathematical physics Third edition updated with Exercises in Hilbert space theory Lie groups Matrix valued differential forms Bose Fermi operators and string theory All other chapters have been updated with new problems and materials Most chapters contain an introduction to the subject discussed in the text   *Combinatorics II Problems and Solutions* Stefan Hollos,J. Richard Hollos,2016-11-01 This book deals mainly with pattern counting problems It is a continuation of our previous combinatorics problem book There are 80

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