



The Geometry Problem Solver

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REA's Plane and Solid (Space) Geometry Problem Solver

Each *Problem Solver* is an insightful and essential study and solution guide chock-full of clear, concise problem-solving gems. Answers to all of your questions can be found in one convenient source from one of the most trusted names in reference solution guides. More useful, more practical, and more informative, these study aids are the best review books and textbook companions available. They're perfect for undergraduate and graduate studies.

This highly useful reference covers topics in plane and solid (space) geometry. Pictorial diagrams with thorough explanations on solving problems incongruence, parallelism, inequalities, similarities, triangles, circles, polygons, constructions, and coordinate/analytic geometry.

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Editorial Review

From the Back Cover

REA's *Problem Solvers* is a series of useful, practical, and informative study guides. Each title in the series is complete step-by-step solution guide. The Geometry Problem Solver enables students to solve difficult problems by showing them step-by-step solutions to Geometry problems.

The Problem Solvers cover material ranging from the elementary to the advanced and make excellent review books and textbook companions.

The Geometry Problem Solver is the perfect resource for any class, any exam, and any problem!

About the Author

Ernest Woodward, Ed.D., is professor of mathematics at Austin Peay State University, Clarksville, Tenn.

Founded in 1959, Research & Education Association is dedicated to producing the finest and most effective digital and print materials in educational publishing, including some of America's most popular test preps and study aids. REA's wide-ranging catalog is a leading resource for teachers, students, and professionals.

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HOW TO USE THIS BOOK

This book can be an invaluable aid to students in geometry as a supplement to their textbooks. The book is divided into 52 chapters, each dealing with a separate topic. The subject matter is developed beginning with lines and angles and extending through analytic (coordinate) and solid geometry. Sections on constructions, coordinate conversions, polygons, surface areas, and volumes have also been included.

Each chapter in the book starts with a section titled Basic Attacks and Strategies for Solving Problems in this Chapter. This section explains the principles that are applicable to the topics in the chapter. By reviewing these principles, students can acquire a good grasp of the underlying techniques and strategies through which problems related to the chapter may be solved.

HOW TO LEARN AND UNDERSTAND A TOPIC THOROUGHLY

1. Refer to your class text and read the section pertaining to the topic. You should become acquainted with the principles discussed there. These principles, however, may not be clear to you at the time.
2. Then locate the topic you are looking for by referring to the Table of Contents in the front of this book. After turning to the beginning of the appropriate chapter, read the section titled Basic Attacks and Strategies for Solving Problems in this Chapter. This section is a review of the important principles related to the chapter, and it will help you to understand further how and why problems in the chapter are solved in the manner shown.
3. Turn to the page where the topic begins and review the problems under each topic, in the order given. For each topic, the problems are arranged in order of complexity, from the simplest to the more difficult. Some problems may appear similar to others, but each problem has been selected to illustrate a different point or solution method.

To learn and understand a topic thoroughly and retain its contents, it will generally be necessary for students to review the problems several times. Repeated review is essential in order to gain experience in recognizing the principles that should be applied and to select the best solution technique.

HOW TO FIND A PARTICULAR PROBLEM

To locate one or more problems related to particular subject matter, refer to the index. In using the index, be certain to note that the numbers given there refer to problem numbers, not to page numbers. This arrangement of the index is intended to facilitate finding a problem more rapidly, since two or more problems may appear on a page.

If a particular type of problem cannot be found readily, it is recommended that the student refer to the Table of Contents and then turn to the chapter which is applicable to the problem being sought. By scanning or glancing at the material that is boxed, it will generally be possible to find problems related to the one being sought, without consuming considerable time. After the problems have been located, the solutions can be reviewed and studied in detail.

For the purpose of locating problems rapidly, students should acquaint themselves with the organization of the book as found in the Table of Contents.

In preparing for an exam, it is useful to find the topics to be covered in the exam from the Table of Contents, and then review the problems under those topics several times. This should equip the student with what might be needed for the exam.

Users Review

From reader reviews:

Rick Briones:

Reading a book to get new life style in this season; every people loves to go through a book. When you learn a book you can get a lots of benefit. When you read guides, you can improve your knowledge, due to the fact book has a lot of information on it. The information that you will get depend on what kinds of book that you have read. In order to get information about your research, you can read education books, but if you act like you want to entertain yourself you are able to a fiction books, such us novel, comics, and soon. The The Geometry Problem Solver will give you a new experience in examining a book.

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