

Fundamentals of geometry are covered in the course, including angles, triangle similarity and congruence, complicated area problems, mastering the triangle, special quadrilaterals, polygons, power of a point, 3-dimensional geometry, transformations, analytic geometry, basic trigonometry, geometric proof, and more. The course will be offered in Fall 2025 and is structured to inspire students to explore and develop new ideas. It includes over 900 problems, with solutions manual providing full solutions. The book can serve as a complete geometry course, ideal for middle school students preparing for MATHCOUNTS, high school students preparing for the AMC, and other students seeking to master the fundamentals of geometry. The curriculum outlined is exhaustive and tailored for students aiming for careers in math, engineering, computer science, or related fields. Unlike most texts that cate to lower-quartila students, this one caters to a boroder range of abilities, recognizing that even good students may struggle with the material. AoPS has exceptional problems, including those found on Alcumus, which make this book a valuable resource for supplementing math education. Similar to Saxon and other top texts, it inlinizes extraneous content such as computer programming or biography, focusing problems, is effective, with abrupt transitions between sections and unclear diagram placement. The text is full-width, making it harder to read and navigate, whereas my own materials are two-thirds width, allowing for better text and problem offsetting. Despite these production value issues, the content is excellent, covering a range of focusing solely on calculating the volume of a sphere, the book should prioritize setting students up for success with more challenging material in Introductory Analysis courses. Another concern is the absence of a hardback textbook option. As an alternative, options include the polciani/Jurgensen/Brown series (although I'm still waiting to receive my edition (which organizes from the 60s), Saxon's

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