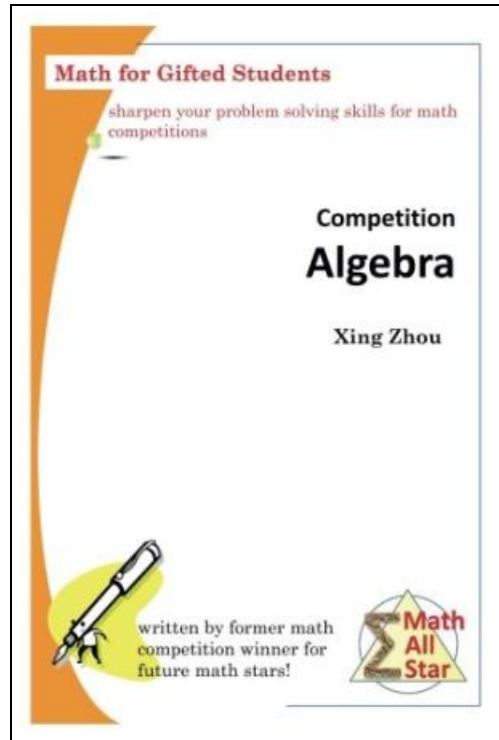


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COMPETITION ALGEBRA: MATH FOR GIFTED STUDENTS (PAPERBACK)



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Createspace Independent Publishing Platform, 2017. Paperback. Condition: New. Language: English . Brand New Book ***** Print on Demand *****.Algebra is taught from elementary school to college and beyond. Algebraic problems present a significant portion in all math competitions including MathCounts, AMC, AIME, USAMO and so on. Therefore, solving competition level algebraic problems is a must-master skills for every contest contender. Algebra includes a wide range of topics and techniques. Some of them may be related to advanced mathematical theorems and tools. Therefore, it is impossible to cover all of them in one book. However, middle school and high school level competitions usually do not require advanced mathematics. Instead, the emphasis is on the applications of basic algebraic skills in a flexible and effective way to solve complex problems. As a result, it is a wise strategy to thoroughly understand the most important topics and drill down into details of related solving techniques in order to improve one's skill and test performance. This book covers three basic but important topics: equation, sequence and function. While these topics are all taught in schools, there are some competition specific techniques which deserve a systematic discussion. Taking Vieta's theorem as an example. While polynomial transformation is a well known method to evaluate expressions such as $x^2 + 2x + 1$, there are several other powerful techniques. They can be used to evaluate some complex expressions in a more efficient and less error-prone way. These expressions can have high power such as $x^2 + 2x + 1$, or are asymmetric such as $3x^2 + 5x + 1$. In fact, the latter asymmetric expression can present a challenge to many students who only know the polynomial transformation method. In addition to expression evaluation, Vieta's theorem can also be used to...



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