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Page 2 This work is about inequalities that play an important role in mathematical Olympiads. There are 175 solved problems as exercise and in addition 310 problems have been solved. The book also covers the theoretical background of the most important theorem and techniques needed to resolve inequalities. It is written for all middle and high school students, as well as for undergraduate and graduate students. School teachers and trainers will also get the benefit of this book for mathematical competitions. \$10 from algebraic inequalities Start group \$1 mean inequalities like kauchy's inequality, AM-GM inequality, etc. I need it for the International Mathematics Olympiad (IMO), so I hope I can find some books that introduce inequality at that level. While I can only find problems on websites like M.SE or AoPS (most of which are almost incomprehensible to me), I want a book that provides a detailed, reader-friendly approach to that topic. Any recommendations? Thanks in advance. \$1Endgroup\$B.G. Pachpatte is a professor of mathematics at Marathwada University in Aurangabad, India. Their main research interests are in the area of difference, integral and inter-equations and inequalities. Pachpatte has written a large number of research papers published in international journals; He is also associate editor of the Journal of Mathematical Analysis and Applications, Applied Nonlinear Analysis, Octagonal, and Communication on Differential Equations and Dynamic Systems. The classic book on inequalities is inequalities by Hardy, Littlewood and Playa, first published in 1934 (ISBN 0521358809). I mentioned it some time back. The book is very deep. I imagine that more people read the cover to cover it than use it as a reference. The Couch-Schwarz master class by Michael Steele (ISBN 052154677X) is another recent book on inequalities, published in 2004. The preamble explains what the title means from the master class. In fine arts, a master class is a small class where students and coaches work together to support a high level of technical and creative excellence. This book tries to capture the spirit of a master class while providing coaching for readers who want to refine their skills as solvers of problems, especially those problems dealing with mathematical disparities. The Kauchi-Schwarz master class book lives up to its stated purpose. Reading the book and working through practice reminds me to take music lessons. Instead of listing specific results, emphasis is being placed on learning techniques. The final book I'll mention when less is more: Imagine basic inequalities by Claudia Alsina and Roger B. Nelson (ISBN 0883853426). Like the Kauchi-Schwarz master class, the book emphasizes problem-solving technology. More specifically, it emphasizes geometric techniques to understand and prove inequalities. (I Review when less is high, but unfortunately you have to log in as a MAA member to read it.) When less is more as concerned with beauty as with the truth. You can tell from the architecture in the cover art and title that this book cares about aesthetics. Each proof is a polished gem. Related posts mean old math books and inequality random disparities Hayk Sedrakyan is an IMO medalist, professor of mathematics in Paris, France and a professional math Olympiad coach in the Greater Boston area, Massachusetts, USA. He has defended a PhD thesis in mathematics at upmc-Sorbonne University in Paris, France. Hayk is a doctor of mathematical sciences in the United States, France and Armenia. He has received three master's degrees in mathematics from Germany, Austria, Armenia and spent a small part of his PhD studies in Italy. Hayk has written several books on the subject of problem solving and Olympiad-style mathematics published globally. Nayeri Sedrakis is involved in the National and International Olympiads of Mathematics, who has been president of the Armenian Mathematics Olympiads and a member of the IMO Problem Selection Committee. He is the author of one of the toughest problems ever proposed in the history of the International Mathematical Olympiad (the 5th problem of the 37th IMO). He has been the leader of the Armenian IMO team, jury member of IMO, a jury member and member of the problem selection committee. Zhautykov International Mathematical Olympiad (ZIMO), a jury member of the International Olympiad of Metros and a member of the Problem Selection Committee and president of the International Mathematical Olympiad Tournament of Towns. He is also the author of a large number of problems proposed at these Olympiads and has written several books on the subject of globally published problem solving and Olympiad-style mathematics. The students of Nayeri Sedrakis have received 20 medals in the International Mathematical Olympiad (1 gold medal, 4 silver medals, 15 bronze medals, one of which was found by their son). For his outstanding teaching, Nayeri Sedrakis won the title of Best Teacher of the Republic of Armenia and was awarded a special gift from the Prime Minister

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