The Contest Problem Book IX (MAA Problem Book Series) (Bk. 9)

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This is the ninth book of problems and solutions from the American Mathematics Competitions (AMC) contests. It chronicles 325 problems from the thirteen AMC 12 contests given in the years between 2001 and 2007. The authors were the joint directors of the AMC 12 and the AMC 10 competitions during that period.

The problems have all been edited to ensure that they conform to the current style of the AMC 12 competitions. Graphs and figures have been redrawn to make them more consistent in form and style, and the solutions to the problems have been both edited and supplemented.

A problem index at the back of the book classifies the problems into subject areas of Algebra, Arithmetic, Complex Numbers, Counting, Functions, Geometry, Graphs, Logarithms, Logic, Number Theory, Polynomials, Probability, Sequences, Statistics, and Trigonometry. A problem that uses a combination of these areas is listed multiple times.

The problems on these contests are posed by members of the mathematical community in the hope that all secondary school students will have an opportunity to participate in problem-solving and an enriching mathematical experience.

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Editorial Review

About the Author

J. Douglas Faires received his BS in mathematics from Youngstown State University in 1963, and earned his Ph.D. in mathematics from the University of South Carolina in 1970. He has been a Professor at Youngstown State University since 1980, and has been actively involved in the MAA for many years. He is currently a member of the MAA's Undergraduate Research and Undergraduate Student Activities Committees and he was the National Director of the AMC 10 Competition of the American Mathematics Competitions until 2007. Faires has been the recipient of many awards and honors. He was named the Outstanding College-University Teacher of Mathematics by the Ohio Section of the MAA in 1996; he has also received five Distinguished Professorship awards from Youngstown State University, and an honorary Doctorate of Science Degree in May 2006.

David Wells received a Ph.D. in mathematics from the University of Pittsburgh in 1973. He taught at Ohio Dominican University for six years and has been at the New Kensington campus of Penn State University since 1979. During his career at Penn State he has received both the Teresa Cohen Service Award from the New Kensington Campus. He has been a member of the MAA since 1974, holding several sectional and national positions during that time. He served as Governor of the Allegheny Mountain Section from 1996 to 1999 and has recently been appointed as Chair of the MAA Committee on the American Mathematics Competitions. He has chaired the AMC 12 Contest Committee since 2001. Dr. Wells received the Meritorious Service Award from the Allegheny Mountain Section of the MAA in 2005. His non-mathematical interests include hiking and songwriting.

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