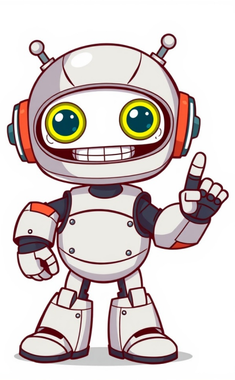
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================================== Looking to master real numbers, equations, and functions? This comprehensive guide covers over 30 topics in mathematics, including review skills, symbols, fractions, exponents, and more. The guide starts with an overview of real numbers, covering study tips for success in mathematics, symbols and sets, and a range of operations such as adding, subtracting, multiplying, and dividing. It also touches on properties of real numbers. Next, the guide delves into equations, inequalities, and problem-solving, including simplifying algebraic expressions, solving linear equations, and introducing problem-solving strategies. The section on graphing covers reading graphs, intercepts, slope, and rate of change, as well as equation of lines and functions. It also explores systems of linear equations and graphing linear inequalities in two variables. The guide then shifts to exponential and logarithmic functions, covering composite functions, inverse functions, exponential growth and decay, and properties of logarithms. It also introduces common logarithms, natural logarithms, and the change of base. Finally, the guide touches on conic sections, including parabolas, circles, ellipses, and hyperbolas. It concludes with a review of systems of nonlinear equations and problem-solving strategies. Throughout the guide, you'll find over 4500 institutions, 230 countries and territories, 10K+ publishers, and 18M+ active users, making it an invaluable resource for anyone looking to improve their math skills. ================================== Every student can succeed in Elayn Martin-Gay's algebra courses, which focus on student needs and employ a student-centric approach. Her clear writing style and innovative pedagogical methods inspire students and instructors alike. This revised textbook continues her emphasis on student success. Martin-Gay's MyMathLab program offers online homework, tutorials, and assessments to engage students and improve results. Students practice what they learn within a structured environment, testing their understanding and pursuing personalized study plans. The Martin-Gay principle is built into all her texts and MyLab courses, providing effective support through video resources, study skills guidance, and accessible writing. Her course materials have been shaped by her focus on student success, which has made them beloved by students and instructors. In the latest revision, expanded resources bring more updates to her program, all centered around the student's needs. The Martin-Gay series combines trusted author content with digital tools in MyLab Math, personalizing the learning experience and improving results for each student.