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Stanford Pre-Collegiate Studies is actively monitoring the status of the COVID-19 pandemic with the health and well-being of our community firmly in mind. In light of the university's decisions about summer programming generally, we have decided to move some of our summer activity online, including the Stanford Pre-Collegiate Summer Institutes .

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all positive integer solutions (x, y) of the equation $x^2 - y^2 = 20$. 3.
Find all positive integer solutions (x, y) of the equation $xy + 5x + 3y \dots$

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all positive integer solutions (x, y) of the equation $x^2 - y^2 = 20$. 3.

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Educational Program for Gifted Youth (EPGY) Math Olympiad

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Problem Solving Summer 2008 Instructor: Dana Paquin, Ph.D.

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Stanford University's Education Program for Gifted Youth (EPGY)
The Education Program for Gifted Youth at Stanford provides online courses for students who are considered gifted or advanced.

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These courses are available for children in Kindergarten all the way through college. Elementary school aged students can select from a variety of math ...

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The Education Program for Gifted Youth (EPGY) at Stanford University was a loose collection of gifted education programs formerly located within Stanford Pre-Collegiate Studies program. EPGY included distance and residential summer courses for students of all ages. Many of the courses were distance learning, meaning that courses were taught remotely via the Internet, rather than in the ...

~~Education Program for Gifted Youth - Wikipedia~~

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Education Program for Gifted Youth (EPGY) is a mathematics program for youth displaying gifts in academics. The program is similar to CTY but is based in Stanford University.

~~Art of Problem Solving~~

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The nine math and five physics courses within the University-Level Online program have their origins in the Education Program for Gifted Youth (1989 - 2013) at Stanford University. EPGY was formed out of the research efforts in computer-based education of Professor Patrick Suppes (1922 -2014) stemming from the early 1960s. The course curricula were created between the years of 1994 and 2003 ...

~~FAQ — Stanford Pre-Collegiate University Level Online Math ...~~

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Reveals strategies for helping today's high-school students become an applicant for whom colleges will compete, identifying academic credentials, extracurricular programs, and other achievements that will be favorably received by leading admissions committees.

From the author of *What Colleges Don't Tell You*, a plan to help parents of middle and early high school students prepare their kids for the best colleges In order to succeed in the fiercely competitive college admissions game, you need a game plan—and you have to start young. In this empowering guide, Elizabeth Wissner- Gross, a

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nationally sought-after college “packager,” helps parents of seventh to tenth graders create a long-term plan that, come senior year, will allow their kids to virtually write their own ticket into their choice of schools. Parents should start by helping their kids identify their academic passions, then design a four-year strategy based on those interests. The book details hundreds of opportunities available to make kids stand out that most high school guidance counselors and teachers simply don’t know about or don’t think to share. This indispensable guide should be required reading for any parent whose child dreams of attending one of the country’s top colleges.

Fully revised and updated for a new generation of educators, this is the definitive guide to meeting the learning needs of gifted students in the mixed-abilities classroom—seamlessly and effectively with

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minimal preparation time. Included are practical, classroom-tested strategies and step-by-step instructions for how to use them. The new edition provides information on using technology for accelerated learning, managing cluster grouping, increasing curriculum rigor, improving assessments, boosting critical and creative thinking skills, and addressing gifted kids with special needs. Already a perennial best seller, this guide's third edition is sure to be welcomed with open arms by teachers everywhere. Digital content provides a PowerPoint presentation for professional development, customizable reproducible forms from the book, additional extension menus for students in the primary and upper-elementary grades, and a special supplement for parents of gifted children.

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First published in 2001. Routledge is an imprint of Taylor & Francis, an informa company.

For the Rising Math Olympians contains over 500 examples and brand-new problems in Number Theory, Algebra, Counting & Probability, and Geometry that are frequently tested in math competitions. Each chapter contains concepts with detailed explanations, examples with step-by-step solutions, and review problems to reinforce the students' understanding. This book is written for beginning mathletes who are interested in learning advanced problem solving and critical thinking skills in preparation for elementary and middle school math competitions. For the past three years, Jesse has served as an assistant coach for his former middle school math team and the curriculum director for the Maui

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Math Circle. In 2016, three of his students finished in the top 10 in the Hawaii State Mathcounts Competition. This book consists of the top 20 math concepts that he used to train his students.

Many mathematicians have been drawn to mathematics through their experience with math circles: extracurricular programs exposing teenage students to advanced mathematical topics and a myriad of problem solving techniques and inspiring in them a lifelong love for mathematics. Founded in 1998, the Berkeley Math Circle (BMC) is a pioneering model of a U.S. math circle, aspiring to prepare our best young minds for their future roles as mathematics leaders. Over the last decade, 50 instructors--from university professors to high school teachers to business tycoons--have shared their passion for mathematics by delivering

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more than 320 BMC sessions full of mathematical challenges and wonders. Based on a dozen of these sessions, this book encompasses a wide variety of enticing mathematical topics: from inversion in the plane to circle geometry; from combinatorics to Rubik's cube and abstract algebra; from number theory to mass point theory; from complex numbers to game theory via invariants and monovariants. The treatments of these subjects encompass every significant method of proof and emphasize ways of thinking and reasoning via 100 problem solving techniques. Also featured are 300 problems, ranging from beginner to intermediate level, with occasional peaks of advanced problems and even some open questions. The book presents possible paths to studying mathematics and inevitably falling in love with it, via teaching two important skills: thinking creatively while still ``obeying the rules,"

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and making connections between problems, ideas, and theories. The book encourages you to apply the newly acquired knowledge to problems and guides you along the way, but rarely gives you ready answers. "Learning from our own mistakes" often occurs through discussions of non-proofs and common problem solving pitfalls. The reader has to commit to mastering the new theories and techniques by "getting your hands dirty" with the problems, going back and reviewing necessary problem solving techniques and theory, and persistently moving forward in the book. The mathematical world is huge: you'll never know everything, but you'll learn where to find things, how to connect and use them. The rewards will be substantial. In the interest of fostering a greater awareness and appreciation of mathematics and its connections to other disciplines and everyday life, MSRI and the AMS are

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publishing books in the Mathematical Circles Library series as a service to young people, their parents and teachers, and the mathematics profession.

This new report, *A Nation Empowered: Evidence Trumps the Excuses Holding Back America's Brightest Students* builds on the momentum of the 2004 report, *A Nation Deceived: How Schools Hold Back America's Brightest Students*. *A Nation Deceived* initiated a critical dialogue about academic acceleration, an under-used intervention. *A Nation Deceived* exposed to the nation the inconsistencies between research and practice and brought acceleration to prominence in the field. Volume 1 and 2 of *A Nation Empowered: Evidence Trumps the Excuses Holding Back America's Brightest Students* equips students, families, and

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educators with facts to refute biased excuses. A Nation Empowered shifts the impetus from conversation to action. Empowerment galvanizes determination with evidence. Volume 1 portrays the determination of students, educators, and parents to strive for excellence. Volume 2 reveals the evidence that trumps the excuses that hold bright students back.

"Admission Possible "doesn't just describe college admissions--it shows exactly what to say and do every step along the way from freshman through senior year of high school, using fully illustrated examples and checklists.

In the twenty-first century, everyone can benefit from being able to think mathematically. This is not the same as "doing math." The

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latter usually involves the application of formulas, procedures, and symbolic manipulations; mathematical thinking is a powerful way of thinking about things in the world -- logically, analytically, quantitatively, and with precision. It is not a natural way of thinking, but it can be learned. Mathematicians, scientists, and engineers need to "do math," and it takes many years of college-level education to learn all that is required. Mathematical thinking is valuable to everyone, and can be mastered in about six weeks by anyone who has completed high school mathematics. Mathematical thinking does not have to be about mathematics at all, but parts of mathematics provide the ideal target domain to learn how to think that way, and that is the approach taken by this short but valuable book. The book is written primarily for first and second year students of science, technology, engineering, and mathematics

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(STEM) at colleges and universities, and for high school students intending to study a STEM subject at university. Many students encounter difficulty going from high school math to college-level mathematics. Even if they did well at math in school, most are knocked off course for a while by the shift in emphasis, from the K-12 focus on mastering procedures to the "mathematical thinking" characteristic of much university mathematics. Though the majority survive the transition, many do not. To help them make the shift, colleges and universities often have a "transition course." This book could serve as a textbook or a supplementary source for such a course. Because of the widespread applicability of mathematical thinking, however, the book has been kept short and written in an engaging style, to make it accessible to anyone who seeks to extend and improve their analytic thinking skills. Going beyond a basic

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grasp of analytic thinking that everyone can benefit from, the STEM student who truly masters mathematical thinking will find that college-level mathematics goes from being confusing, frustrating, and at times seemingly impossible, to making sense and being hard but doable. Dr. Keith Devlin is a professional mathematician at Stanford University and the author of 31 previous books and over 80 research papers. His books have earned him many awards, including the Pythagoras Prize, the Carl Sagan Award, and the Joint Policy Board for Mathematics Communications Award. He is known to millions of NPR listeners as "the Math Guy" on Weekend Edition with Scott Simon. He writes a popular monthly blog "Devlin's Angle" for the Mathematical Association of America, another blog under the name "profkeithdevlin", and also blogs on various topics for the

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Huffington Post.

If you need a book that relates the core principles of quantum mechanics to modern applications in engineering, physics, and nanotechnology, this is it. Students will appreciate the book's applied emphasis, which illustrates theoretical concepts with examples of nanostructured materials, optics, and semiconductor devices. The many worked examples and more than 160 homework problems help students to problem solve and to practise applications of theory. Without assuming a prior knowledge of high-level physics or classical mechanics, the text introduces Schrödinger's equation, operators, and approximation methods. Systems, including the hydrogen atom and crystalline materials, are analyzed in detail. More advanced subjects, such as density matrices,

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quantum optics, and quantum information, are also covered. Practical applications and algorithms for the computational analysis of simple structures make this an ideal introduction to quantum mechanics for students of engineering, physics, nanotechnology, and other disciplines. Additional resources available from www.cambridge.org/9780521897839.

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