

ACTIVITY 20

continued

My Notes

Lesson 20-1 Pythagorean Theorem

- The corresponding sides of similar triangles are proportional, so you can write proportions involving sides of the triangles from Item 2. Complete each proportion. Then find the cross products.

$$\frac{b}{a} = \frac{\boxed{}}{b}$$

$$\frac{a}{\boxed{}} = \frac{c}{a}$$

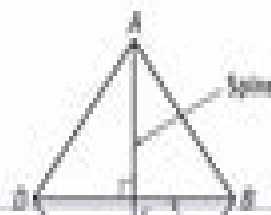
- Use the equations from Item 3 and algebra to prove $a^2 + b^2 = c^2$.

$$\begin{aligned} 3^2 + 4^2 & \stackrel{?}{=} 6^2 \\ 9 + 16 & \stackrel{?}{=} 36 \\ 25 & \neq 36 \end{aligned}$$

Check Your Understanding

- Pythagorean triple** is a set of three nonzero whole numbers that satisfy the Pythagorean Theorem. Explain why the numbers 3, 4, and 6 do not form a Pythagorean triple.
- Explain why the Pythagorean Theorem relationship, $a^2 + b^2 = c^2$, is only true if c is greater than both a and b .

One of Sarah's customers designed the rhombus-shaped kite shown.



Springboard Geometry Unit 1

Kristine Reed Woleck



Springboard Geometry Unit 1:

It's about Time Roger Cooke, 2017-02-28 This book has three main goals First it explores a selection of topics from the early period of the theory of relativity focusing on particular aspects that are interesting or unusual These include the twin paradox relativistic mechanics and its interaction with Maxwell's laws the earliest triumphs of general relativity relating to the orbit of Mercury and the deflection of light passing near the sun and the surprising bizarre metric of Kurt Godel in which time travel is possible Second it provides an exposition of the differential geometry needed to understand these topics on a level that is intended to be accessible to those with just two years of university level mathematics as background Third it reflects on the historical development of the subject and its significance for our understanding of what reality is and how we can know about the physical universe The book also takes note of historical prefigurations of relativity such as Euler's 1744 result that a particle moving on a surface and subject to no tangential acceleration will move along a geodesic and the work of Lorentz and Poincare on space time coordinate transformations between two observers in motion at constant relative velocity The book is aimed at advanced undergraduate mathematics science and engineering majors and of course at any interested person who knows a little university level mathematics The reader is assumed to know the rudiments of advanced calculus a few techniques for solving differential equations some linear algebra and basics of set theory and groups

Geometry Labs Henri Picciotto, 1999 Geometry Labs is a book of hands on activities that use manipulatives to teach important ideas in geometry These 78 activities have enough depth to provide excellent opportunities for discussion and reflection in both middle school and high school classrooms

Film & Video Finder, 1997 Euler Through Time V. S. Varadarajan, 2006 Euler is one of the greatest and most prolific mathematicians of all time He wrote the first accessible books on calculus created the theory of circular functions and discovered new areas of research such as elliptic integrals the calculus of variations graph theory divergent series and so on It took hundreds of years for his successors to develop in full the theories he began and some of his themes are still at the center of today's mathematics It is of great interest therefore to examine his work and its relation to current mathematics This book attempts to do that In number theory the discoveries he made empirically would require for their eventual understanding such sophisticated developments as the reciprocity laws and class field theory His pioneering work on elliptic integrals is the precursor of the modern theory of abelian functions and abelian integrals His evaluation of zeta and multizeta values is not only a fantastic and exciting story but very relevant to us because they are at the confluence of much research in algebraic geometry and number theory today Chapters 2 and 3 of the book Anticipating his successors by more than a century Euler created a theory of summation of series that do not converge in the traditional manner Chapter 5 of the book treats the progression of ideas regarding divergent series from Euler to many parts of modern analysis and quantum physics The last chapter contains a brief treatment of Euler products Euler discovered the product formula over the primes for the zeta function as well as for a small number of what are now called Dirichlet L

functions Here the book goes into the development of the theory of such Euler products and the role they play in number theory thus offering the reader a glimpse of current developments the Langlands program

Instructor's Manual for Elementary and Middle School Mathematics John Van de Walle,2004 Job Corps GED Competencies Program Guide United States. Employment and Training Administration,1987 **Catalog** Wichita State University,1964 Includes general information degree requirements and curricula

Moments in Mathematics Coaching Kristine Reed Woleck,2010-03-09 A must read for all mathematics teacher coaches Woleck brings us into her coaching life by sharing these cases from her work Through the engaging details of these personal stories she skillfully leads us into considering various coaching models essential coaching skills and effective coaching practices Focus questions at the end of each chapter add an incentive for readers to deepen their own practices and use this book as the basis for study groups Euthecia Hancewicz Mathematics Teacher Support Specialist Mathematics Educator Support Services Westhampton MA Woleck provides an instructive and insightful analysis of what makes coaching a powerful and capacity building resource for schools This highly engaging and informative account details how effective coaching skills develop and become refined through research based study daily practice and ongoing reflection Mary Monroe Kolek Deputy Superintendent New Canaan Public Schools CT Follow a mathematics coach through real cases from actual school situations Kristine Reed Woleck reflects on specific cases or moments from her years as a mathematics coach unpacking and examining for readers the critical elements of mathematics teaching learning and coaching This accessible practical resource discusses what effective coaching looks like and how beginning and veteran mathematics coaches in Grades K 5 can bring about meaningful improvements in mathematics instruction The real life cases illustrate how to Incorporate key elements of coaching into practice Build trusting relationships with teachers Make effective decisions throughout the coaching cycle Reference data and the curriculum as coaching tools Use reflection to link coaching concepts to actual practice

Mathematics for the Million: How to Master the Magic of Numbers Lancelot Hogben,1993-09-17 It makes alive the contents of the elements of mathematics Albert Einstein Taking only the most elementary knowledge for granted Lancelot Hogben leads readers of this famous book through the whole course from simple arithmetic to calculus His illuminating explanation is addressed to the person who wants to understand the place of mathematics in modern civilization but who has been intimidated by its supposed difficulty Mathematics is the language of size shape and order a language Hogben shows one can both master and enjoy

Teaching Mathematics in Grades 6 - 12 Randall E. Groth,2012-08-10 A journey into the vibrant and intriguing world of mathematics education Teaching Mathematics in Grades 6 12 explores how research in mathematics education can inform teaching practice in grades 6 12 The author shows secondary mathematics teachers the value of being a researcher in the classroom by constantly experimenting with methods for developing students mathematical thinking and then connecting this research to practices that enhance students understanding of the material The chapters in Part I introduce secondary teachers to the

field of mathematics education with cross cutting issues that apply to teaching and learning in all mathematics content areas The chapters in Part II are devoted to specific mathematics content strands and describe how students think about mathematical concepts The goal of the text is to have secondary math teachers gain a deeper understanding of the types of mathematical knowledge their students bring to grade 6 12 classrooms and how students thinking may develop in response to different teaching strategies

String Explorer, Book 1 Andrew H. Dabczynski, Richard Meyer, Bob Phillips, Alfred and Highland Etling are taking a brand new approach to string instruction that promises to grab and hold every student s attention String Explorer Join the adventures of Arco Dakota and Rosalyn Le Bow as they guide your students along the path to successful string playing with the most exciting yet systematic and logically sequenced instruction of its kind

Mathematics For The Million Lancelot Hogben, 1968 Explains mathematics from counting to calculus in the light of man s changing social achievements

R.R. Bowker's Software for Schools , 1987

The Mathematics Teacher , 2005

British Books in Print , 1986

Solid Geometry , 1944 Syllabus for military instructors teaching high school geometry as part of the U S Army education program

Build It! Festival Philip Gonsalves, Jaine Kopp, 1999 Presents eight hands on activities for helping kindergartners through sixth graders understand math based on the Great Explorations in Math and Science GEMS Build It Festival outreach program

Priorities in Teacher Education Clare Kosnik, Clive Beck, 2009-05-07 Advocating concentrating on certain priorities to ensure beginning teachers are prepared for the crucial tasks that will face them this book discusses seven priorities through case studies

Resources in Education , 1989

Official Gazette of the United States Patent and Trademark Office , 1988

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