

# Right Triangles & Geometric Mean

## Altitude, Hypotenuse, Legs

CD is 1 of 3 altitudes that can be drawn in  $\triangle ABC$

AC & BC are the other altitudes

★ right  $\triangle$ s are the only types where the altitudes are the legs

### EXAMPLE:

a) name the altitude drawn from the right  $\angle$  of  $\triangle XYZ$

b) name the 2 segments that now form the hyp of  $\triangle XYZ$  a)  $ZW$  b)  $XW, WY$



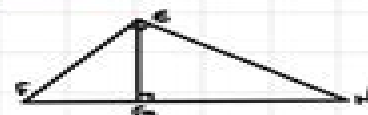
### EXAMPLE:

a) name the legs of  $\triangle FEH$

b) name the hyp of  $\triangle FEH$

c) name the 2 segments that form the hyp of  $\triangle FEH$

a)  $\overline{FE}, \overline{HE}$  b)  $\overline{FH}$  c)  $\overline{FG}, \overline{GH}$



## Altitude of a Right Triangle Theorem

the length of the altitude drawn from the right  $\angle$  of a right  $\triangle$  is the geometric mean of the lengths of the 2 segments that form the hypotenuse.

$\overline{AD}$  is the altitude drawn from the right  $\angle$ , therefore the following proportion follows the theorem

$$\frac{BD}{AD} = \frac{AD}{DC}$$

- the altitude is in the "means" position of the proportion. This follows the def of geometric mean

★ apply this th when given the length of the altitude or when finding the length of the altitude

### EXAMPLES:

1) Find DF  $\frac{18}{x} = \frac{x}{32}$

$$x^2 = 576$$

$$x = 24$$

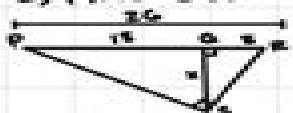


2) Find SQ

$$\frac{18}{x} = \frac{x}{8}$$

$$x^2 = 144$$

$$x = 12$$

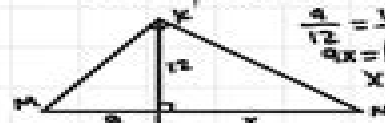


3) Find LN

$$\frac{4}{12} = \frac{12}{x}$$

$$4x = 144$$

$$x = 36$$



## Legs of a Right Triangle Theorem

the length of each leg of a right  $\triangle$  that has an altitude drawn from the right angle is the geometric mean of the length of the hypotenuse & the length of one of the segments that form the hypotenuse. The leg will be adjacent to that segment.

$\overline{AT}$  is the altitude drawn from the right  $\angle$ , therefore the following 2 proportions follow the theorem

$$\frac{BS}{SA} = \frac{BT}{TA} \text{ or } \frac{BS}{SA} = \frac{AT}{TS}$$

★ apply this th when given the length of either leg or when finding the length of either leg



- each leg is in the "means" position of its given proportion. This follows the def of geometric mean

# Honor Geometry 9th Grade Tutorial

**Stefano A. Cerri, Guy Gouarderes, Fabio  
Paraguacu**



## **Honor Geometry 9th Grade Tutorial:**

**A Guide to Detracking Math Courses** Angela Torres, Ho Nguyen, Elizabeth Hull Barnes, Laura Wentworth, 2023-05-03  
Create a pathway to equity by detracking mathematics The tracked mathematics system has been operating in US schools for decades However research demonstrates negative effects on subgroups of students by keeping them in a single math track thereby denying them access to rigorous coursework needed for college and career readiness The journey to change this involves confronting some long standing beliefs and structures in education When supported with the right structures instructional shifts coalition building and educator training and support the detracking of mathematics courses can be a primary pathway to equity The ultimate goal is to increase more students access to and achievement in higher levels of mathematics learning especially for students who are historically marginalized Based on the stories and lessons learned from the San Francisco Unified School District educators who have talked the talk and walked the walk this book provides a model for all those involved in taking on detracking efforts from policymakers and school administrators to math coaches and teachers By sharing stories of real world examples lessons learned and prompts to provoke discussion about your own context the book walks you through Designing and gaining support for a policy of detracked math courses Implementing the policy through practical shifts in scheduling curriculum professional development and coaching Supporting and improving the policy through continuous research monitoring and maintenance This book offers the big ideas that help you in your own unique journey to advance equity in your school or district s mathematics education and also provides practical information to help students in a detracked system thrive

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**Black Excel African American Student's College Guide** Isaac Black, 2008-04-21  
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**Getting In: The Zinch Guide to College**

**Admissions & Financial Aid in the Digital Age** Michael Muska, Paulo de Oliveira, Anne Dwane, Steve Cohen, 2011-12-15 From the college admissions experts where to go how to get in and how to pay for it Zinch com is the largest online social network connecting students with colleges and scholarship opportunities With 2 5 million student profiles and more than 800 universities from Yale to Stanford and American University to community colleges Zinch offers students an efficient relevant and effective way to find the right fit school how to get in and how to pay for it Getting In The Zinch Guide to College Admissions Financial Aid in the Digital Age is your college admissions how to guide written by experts with insider guidance to the entire college admission process Leveraging the power of Zinch com it covers every aspect of the college application process from choosing the right vs best schools visiting campuses improving your odds with a dynamic application strategy meeting with a college advisor working with athletic recruiting applying for financial aid knowing what to do if you are on a wait list and much more Incredibly well connected authors Leverages the power of Zinch com the largest online social network of its kind Application do s and don ts If you are one of the 2 2 million high school seniors ready to embark on the next step in your education Getting In The Zinch Guide to College Admissions Financial Aid in the Digital Age is your go to guide for getting into the college of your dreams without ever breaking a sweat **Common Core Mathematics**

**Standards and Implementing Digital Technologies** Polly, Drew, 2013-05-31 Standards in the American education system are traditionally handled on a state by state basis which can differ significantly from one region of the country to the next Recently initiatives proposed at the federal level have attempted to bridge this gap Common Core Mathematics Standards and Implementing Digital Technologies provides a critical discussion of educational standards in mathematics and how communication technologies can support the implementation of common practices across state lines Leaders in the fields of mathematics education and educational technology will find an examination of the Common Core State Standards in Mathematics through concrete examples current research and best practices for teaching all students regardless of grade level or regional location This book is part of the Advances in Educational Technologies and Instructional Design series collection *Your One Stop Guide to College Admission in the USA* Ragina Singh, PhD, 2016-11-30 Top tier colleges concentrated in U S A are continuously looking for students with a strong academic record good leadership skills and the potential to innovate In this comprehensive seven step guide learn how to create a compelling resume that stands out

The Los Angeles Private School Guide, 2005 Edition Fiona Whitney, 2004-10 Latest edition of this carefully researched review of over 70 of the top private pre schools elementary middle and high schools in the Los Angeles area Includes a section on public charter schools How to start one and how to get into them Discusses Los Angeles Unified School District s G A T E and Magnet programs Helps parents focus on which school will be the best fit for both them and their child economically physically and philosophically Just about everything you ve wanted to ask about a school all in one single book

**Intelligent Tutoring Systems** Stefano A. Cerri, Guy Gouarderes, Fabio Paraguacu, 2007-10-23 This book constitutes the

refereed proceedings of the 6th International Conference on Intelligent Tutoring Systems ITS 2002 held in Biarritz France and San Sebastian Spain in June 2002 The 93 revised full papers presented together with 5 invited papers and 16 posters were carefully reviewed and selected from 167 full paper submissions The papers address all current issues in the interdisciplinary field of intelligent tutoring systems The book offers topical sections on agents architectures Web authoring learning dialogue evaluation narrative and motivation and emotions *Slow Down and Smell the Roses: A Guide for Surviving High School (Sort Of)* Liana Chau, 2015-04-17 *Slow Down and Smell the Roses* is an accumulation of advice from a student on how to survive high school academically mentally and emotionally By covering nearly everything one encounters in a high school career from taking on the challenge of being a well rounded student to how to deal with the oh so classic high school drama Chau writes about the things she wish she knew back in freshman year **Women in MathArt** Shanna Dobson, 2024-12-06 This volume contains the proceedings from the first Women in MathArt Research Collaboration Conference for Women showcasing women mathematicians researching and curating creative pedagogies at the intersection of mathematics and the arts This volume contains contributions to mathart projects from student mentor teams and researchers in all stages of their careers The volume also contains survey articles on new mathart intersections such as neuroaesthetics generative design generative adversarial networks and Langlands Program New results of particular interest are diamond Langlands generative design in the geometrization of the local Langlands Program investigations of the grammatology and visual epistemology of perfectoid diamonds in mathematics as grammatological metaphor infinity category constructions of pro Generative Adversarial Networks infinity stackification of mathematical exigency condensing temporal logic with entropic categorizations perfectoid diamond holography neuroaesthetics in immunology Also included is the result to foster a more inclusive work community of mathematicians using the arts as a tool to bring more vulnerability and integrity to each individual s research life Readers are herein provided a rigorous overview of current mathart developments and future mathart projects Developing Math Talent Susan G. Assouline, Ann Lupkowski-Shoplik, 2021-09-03 Build student success in math with the only comprehensive guide for developing math talent among advanced learners The authors nationally recognized math education experts offer a focused look at educating gifted and talented students for success in math More than just a guidebook for educators this book offers a comprehensive approach to mathematics education for gifted students of elementary or middle school age The authors provide concrete suggestions for identifying mathematically talented students tools for instructional planning and specific programming approaches Developing Math Talent features topics such as strategies for identifying mathematically gifted learners strategies for advocating for gifted children with math talent how to design a systematic math education program for gifted students specific curricula and materials that support success and teaching strategies and approaches that encourage and challenge gifted learners **Intelligent Tutoring Systems** ,2002 NLSY79 User's Guide ,2000 *The Seattle Times*

*School Guide* Katherine Long,2000      NLSY97 Users' Guide ,2000      Improving Adolescent Literacy Pamela Craig,Rebecca Sarlo,2013-10-11 Meet your students literacy needs with this book from Pamela Craig and Rebecca Sarlo Literacy experts Craig and Sarlo explain how the implementation of a Problem Solving Response to Intervention framework in grades 4 12 will help all students greatly improve their reading skills Written for secondary teachers and administrators the book shows how to use PS RTI as a tool for establishing achievable goals identifying barriers developing action plans monitoring the effectiveness of the intervention Each chapter includes research based resources and practical guidance to ensure success

*Guide to Secondary Schools* ,1983      *Counseling for College* Eileen R. Matthey,1991 EDUCATION

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