

Right Triangles & Geometric Mean

Altitude, Hypotenuse, Legs

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

AD & 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



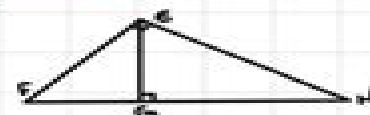
EXAMPLE:

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

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

$$x^2 = 144$$

$$x = 12$$

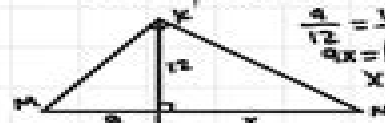


3) Find LN

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

$$4x = 144$$

$$x = 36$$



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

$$\frac{BS}{AS} = \frac{AT}{AS} \text{ or } \frac{BS}{AS} = \frac{AT}{TS}$$

★ 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

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Table of Contents Geometry Hs Mathematics Tesccc Unit 9

1. Understanding the eBook Geometry Hs Mathematics Tesccc Unit 9
 - The Rise of Digital Reading Geometry Hs Mathematics Tesccc Unit 9
 - Advantages of eBooks Over Traditional Books
2. Identifying Geometry Hs Mathematics Tesccc Unit 9
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Geometry Hs Mathematics Tesccc Unit 9
 - User-Friendly Interface
4. Exploring eBook Recommendations from Geometry Hs Mathematics Tesccc Unit 9
 - Personalized Recommendations
 - Geometry Hs Mathematics Tesccc Unit 9 User Reviews and Ratings
 - Geometry Hs Mathematics Tesccc Unit 9 and Bestseller Lists

5. Accessing Geometry Hs Mathematics Tesccc Unit 9 Free and Paid eBooks
 - Geometry Hs Mathematics Tesccc Unit 9 Public Domain eBooks
 - Geometry Hs Mathematics Tesccc Unit 9 eBook Subscription Services
 - Geometry Hs Mathematics Tesccc Unit 9 Budget-Friendly Options
6. Navigating Geometry Hs Mathematics Tesccc Unit 9 eBook Formats
 - ePub, PDF, MOBI, and More
 - Geometry Hs Mathematics Tesccc Unit 9 Compatibility with Devices
 - Geometry Hs Mathematics Tesccc Unit 9 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Geometry Hs Mathematics Tesccc Unit 9
 - Highlighting and Note-Taking Geometry Hs Mathematics Tesccc Unit 9
 - Interactive Elements Geometry Hs Mathematics Tesccc Unit 9
8. Staying Engaged with Geometry Hs Mathematics Tesccc Unit 9
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Geometry Hs Mathematics Tesccc Unit 9
9. Balancing eBooks and Physical Books Geometry Hs Mathematics Tesccc Unit 9
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Geometry Hs Mathematics Tesccc Unit 9
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Geometry Hs Mathematics Tesccc Unit 9
 - Setting Reading Goals Geometry Hs Mathematics Tesccc Unit 9
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Geometry Hs Mathematics Tesccc Unit 9
 - Fact-Checking eBook Content of Geometry Hs Mathematics Tesccc Unit 9
 - Distinguishing Credible Sources
13. Promoting Lifelong Learning

- Utilizing eBooks for Skill Development
- Exploring Educational eBooks

14. Embracing eBook Trends

- Integration of Multimedia Elements
- Interactive and Gamified eBooks

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