

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



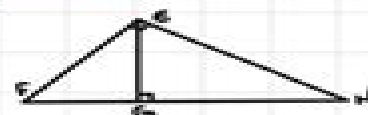
EXAMPLE:

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

$$\frac{18}{x} = \frac{x}{32}$$

$$x^2 = 576$$

$$x = 24$$

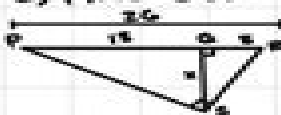


2) Find SQ

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

$$x^2 = 144$$

$$x = 12$$



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

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



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

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

Geometry Hs Mathematics Tesccc Unit 9

Sebastian Brünink



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