

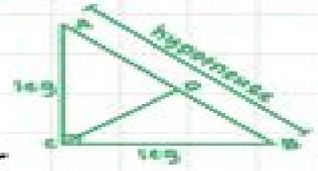
Right Triangles & Geometric Mean

Altitude, Hypotenuse, Legs

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

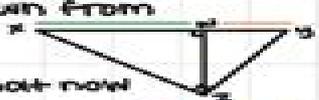
AD & BC are the other altitudes

* right \triangle s are the only types where the altitudes are the legs



EXAMPLE:

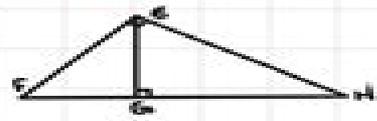
a) name the altitude drawn from the right \angle of $\triangle XYZ$



b) name the 2 segments that now form the hyp of $\triangle XYZ$ a) \overline{ZW} b) $\overline{XW}, \overline{YW}$

EXAMPLE:

a) name the legs of $\triangle FEH$



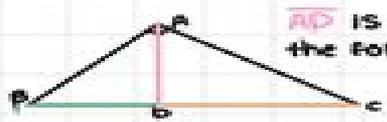
b) name the hyp of $\triangle FEH$

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

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

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

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

$$4x = 12(12-x)$$

$$4x = 144 - 12x$$

$$16x = 144$$

$$x = 9$$

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

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

* 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

9th Grade Geometry Help

Peipei Pang



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