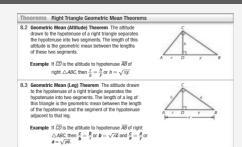


Basic Trigonometry Cheat Sheet by Bunno via cheatography.com/186702/cs/39034/

Geometric Mean

Best explained as an example, The geometric mean of a = 9 and b = 4 is 6, because $6 = \sqrt{9}4$.

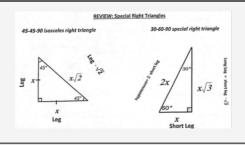
Geometric Mean Right Triangle Theorems



Pythagorean Theorem

a squared + b squared = c squared (Only for Right Triangles)

30-90-60 Triangles and 45-90-45 Triangles



Soh Cah Toa	
Sin()	Opposite / Hypotonuse
Cos()	Adjacent / Hypotonuse
Tan()	Opposite / Adjacent

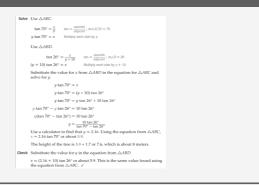
EXAMPLE I CANT EXPIAIN

TREE REMOVAL. To estimate the height of a tree she wants removed, Mrs. Long sights the tree's top at a 70° angle of elevation. She then steps back, 100 meters and sights the top at a 25° angle. If Mrs. Long's line of sight is 1.7 meters above the geometry work at line the tree to the neutrent meter?

Understand $\triangle ABC$ and $\triangle ABD$ are right triangles. The height of the tree is the work of the tree is the work of the Long's height and AB.

Plan Since her initial distance from the tree is not given, write and solve a system of equations using both triangles. Let AB = x and CB = y. So DB = y * 10 and the height of the tree is x * 1.7.

Continued



Law of Sines

Law of Sines $\frac{\sin A}{a} = \frac{\sin B}{b} = \frac{\sin C}{c}$

Law of Cosines

Let $\triangle ABC$ be any triangle with a, b, and c representing the measures of the sides opposite the angles with measures A, B, and C, respectively. Then the following equations are true. $a^2 = b^2 + c^2 - 2bc \cos A \qquad b^2 = a^2 + c^2 - 2ac \cos B \qquad c^2 = a^2 + b^2 - 2ab \cos C$



By **Bunno** cheatography.com/bunno/

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