Cheatography

Geometry Unit 8 Cheat Sheet by Celia (CCRoses) via cheatography.com/118676/cs/22312/

Vocabulary			
geometric mean	the positive square root of the product of two numbers		
trigon- ometric ratio	a ratio of two sides of a right triangle		
angle of elevation	the angle formed by a horizontal line and a line of sight to a point above the line		
angle of depression	the angle formed by a horizontal line and a line of sight to a point below the line		
Theorems & Postulates			
8-1-1 a tr	ne altitude to the hypotenuse of right triangle forms two iangles that are similar to each ther and to the original triangle		

Trigonometric Ratios (SOHCAHTOA)

sine	the ratio of the length of the leg opposite the angle to the length of the hypotenuse	sin = opposi- te/hyp- otenuse
cosine	the ratio of the length of the leg adjacent to the angle to to the length of the hypotenuse	cos = adjace- nt/hyp- otenuse
tangent	the ratio of the length of the leg opposite the angle to the length of the leg adjacent to the angle	tan = apposi- te/adj- acent

C

the law

of sines

the law

cosines

of

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for any triangle ABC with side

for any triangle ABC with side

 $2bc \cos A, b^2 = a^2 + c^2 - 2ac$

lengths a, b, and c, $a^2 = b^2 + c^2$ -

 $\cos B$, and $c^2 = a^2 + b^2 - 2ab \cos C$

lengths a, b, and c, sinA/a =

sinB/b = sinC/c

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