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Trigonometric Problems (solutions,  
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Prove the trigonometric identity:  $\cos \alpha + \cos 2\alpha + \cos 6\alpha + \cos 7\alpha = 4 \cos \alpha \left\{ \frac{\alpha}{2} \right\} \cos \left\{ \frac{5\alpha}{2} \right\}$

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$\cos^2 \alpha \cos^4 \alpha$

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~~And Solutions~~ Advanced Trigonometric Identities. The following tables give some Trigonometric Identities. Scroll down the page for examples and solutions on how to use the Trig Identities.

~~Advanced Trigonometric Identities  
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Another area of trigonometry that is normally not taught until students take Pre-Calculus is the trigonometric identities.



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And are a large number of these but perhaps the most important one, and the one most likely to appear on the ACT, is this:  $\sin^2 \theta + \cos^2 \theta = 1$ . Now let's have you try a few of these advanced trigonometry problems.

~~ACT Math: Advanced Trigonometry~~

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## ~~Problems + Cardinal ...~~

Solutions to the Above Problems.  $x = 10 / \tan(51^\circ) = 8.1$  (2 significant digits)  $H = 10 / \sin(51^\circ) = 13$  (2 significant digits) Area =  $(1/2)(2x)(x) = 400$  Solve for  $x$ :  $x = 20$ ,  $2x = 40$  Pythagora's theorem:  $(2x)^2 + (x)^2 = H^2$   $H = x \sqrt{5} = 20 \sqrt{5}$  BH perpendicular to AC means that triangles

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~~And Solutions~~ ABH and HBC are right triangles. Hence

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The solutions of the problems are at the end of each chapter. One can navigate back and forth from the text of the problem to its solution using bookmarks.

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## A Guide to Advanced Trigonometry

Before starting with Grade 12 Double and Compound Angle Identities, it is important to revise Grade 11 Trigonometry. Special attention should be given to using the general solution to solve trigonometric equations, as well as using trigonometric identities to simplify expressions.



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Solutions to the Above Problems. Use the identity  $\tan(x) = \sin(x) / \cos(x)$  in the left hand side of the given identity.

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Trigonometry Problems and Solutions.

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**Example 1:** Two friends, Rakesh and Vishal started climbing a pyramid-shaped hill. Rakesh climbs 315 m and finds that the angle of depression is 72.3 degrees from his starting point. How high is he from the ground? Solution: Let  $m$  is the height above the ground. To find: Value of  $m$ . To solve  $m$ , use the sine ...

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~~Trigonometry (Table, Formulas and  
Solved Examples)~~

Solution : Let  $A = \cot \theta + \tan \theta$  and  $B = \sec \theta \csc \theta$ .  
 $A = \cot \theta + \tan \theta$ .  $A = (\cos \theta / \sin \theta) + (\sin \theta / \cos \theta)$   
 $A = (\cos^2 \theta / \sin \theta \cos \theta) + (\sin^2 \theta / \sin \theta \cos \theta)$   
 $A = (\cos^2 \theta + \sin^2 \theta) / \sin \theta \cos \theta$ .  $A = 1 / \sin \theta \cos \theta$ .  $A$

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 $A = \sec \theta \csc \theta$

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## OLYMPIADS

Advanced Trigonometric Identities. Sum and Difference Formulas: Types of Problems: use the sum and difference formulas to determine missing multiples of 15 degrees or  $\pi/12$  from initial unit circle ; rewrite expressions related to sum and difference formulas; Notes &



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