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

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What are Co-Functions in Trigonometry, Power Reducing Formulas, Half Angle Identities to Evaluate Trigonometric Expressions, examples and step by step 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.

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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 ABH and HBC are right triangles. Hence

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from the ground? Solution: Let  $m$  is the height above the ground. To find: Value of  $m$ . To solve  $m$ , use the sine ...

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

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

## ~~Problems on Trigonometric Identities with Solutions~~

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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 & Handouts: Practice :

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