

# Trig Identities Worksheet 34 Solutions

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 $3. \sec 8 \sin 8 \tan 8 + \cot 8 \sin' 8 5. \cos' Y - \sin', y = 12'' - \sin Y 7. \sec 2 e \sec 2 e - 1 \csc 2 e$  Identities  
 worksheet 3.4 name: 2.  $1 + \cos x = \sec x + \cot x \sin x$  Trig Identities worksheet 3.4 name: Prove  
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 Reciprocal Identities, Pythagorean Identities, Co-function Identities, Addition Formulas, Subtraction  
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 $y = 1 - 2 \sin 2 y 6. \csc 2 \theta \tan 2 \theta - 1 = \tan 2 \theta 7. \sec 2 \theta \sec 2 \theta - 1 = \csc 2 \theta 8. \tan 2 x \sin x = \tan 2 x - \sin 2$   
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 number 1. You can see the Pythagorean-Theorem relationship clearly if you consider the unit circle,  
 where the angle is t, the "opposite" side is  $\sin(t) = y$ , the "adjacent" side is  $\cos(t) = x$ , and the  
 hypotenuse is 1. We have additional identities related to the functional status of the trig ratios:  
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### Trig Identities Worksheet 34 Solutions

Trigonometry is the branch of mathematics dealing with the relations of the sides and angles of  
 triangles and with the relevant functions of any angles. Throughout history, trigonometry has been  
 applied in areas such as geodesy, surveying, celestial mechanics, and navigation.

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A general solution is a solution put in a compact form involving an integer and generalizes by means  
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 different forms such as  $\sin \theta = 0$ ,  $\cos \theta = 0$  or  $\tan \theta = 0$  and  $\sin \theta = \sin x$ ,  $\cos \theta = \cos x$  and ...

The following diagrams show the derivatives of trigonometric functions. Scroll down the page for  
 more examples and solutions on how to find the derivatives of trigonometric functions.

Derivatives of Trigonometric Functions. Example: Differentiate  $y = x^2 \sin x$ . Solution: Using the  
 Product Rule and the sin derivative, we have

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 or proving the statements are included here.

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Trig Identities worksheet 3.4 name: Prove each identity: 1.  $\sec x - \tan x \sin x = 1$   $\sec x 2. 1 + \cos x \sin x$   
 $= \csc x + \cot x 3. \sec \theta \sin \theta \tan \theta + \cot \theta = \sin 2 \theta 4. \sec \theta \cos \theta - \tan \theta \cot \theta = 1$   $5. \cos 2 y - \sin 2$   
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 $., y = 12'' - \sin Y 7. \sec 2 e \sec 2 e - 1 \csc 2 e$  Identities worksheet 3.4 name: 2.  $1 + \cos x = \sec x + \cot$   
 $x \sin x$

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These identities are useful when we need to simplify expressions involving trigonometric functions.  
 The following is a list of useful Trigonometric identities: Quotient Identities, Reciprocal Identities,  
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 $\csc = 1 \sin$

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Students are taught about trigonometric identities in school and are an important part of higher-  
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Note that the three identities above all involve squaring and the number 1. You can see the Pythagorean-Theorem relationship clearly if you consider the unit circle, where the angle is  $t$ , the "opposite" side is  $\sin(t) = y$ , the "adjacent" side is  $\cos(t) = x$ , and the hypotenuse is 1. We have additional identities related to the functional status of the trig ratios:

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