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Solutions Of Trigonometric Equations

General Solutions of Trigonometric

Equations  $\sin x \sin \{x\} \sin x = 0$  implies  $x$

$= n\pi$ , where  $n \in \mathbb{Z}$   $\cos x \cos \{x\} \cos x$

$= 0$  implies  $x = (2n + 1)\pi/2$

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An identity is... Trigonometrical equations with their general solution. General solution of the form  $a \cos \theta + b \sin \theta = c$ . Method for ...

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Therefore, the general solution for the given

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trigonometric equation is:  $x = n\pi/4$  or

$n\pi \pm \pi/6$ . Q.2: Find the principal solution of the equation  $\sin x = 1/2$ .

Solution: Since we know,  $\sin \pi/6 = 1/2$ .

and  $\sin 5\pi/6 = \sin(\pi - \pi/6) = \sin \pi/6 = 1/2$ . Therefore, the principal solutions are  $x = \pi/6$  and  $x = 5\pi/6$ .

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Trigonometric Equations - General Solutions and Examples

Trigonometrical equations: General

$$\begin{aligned} \sin \theta = 0: & \theta = n\pi : \cos \theta = 0: \\ & \theta = (n + \frac{1}{2})\pi \cos \theta = 0: \theta = n\pi : \sin \theta = 1: \\ & \theta = (2n + \frac{1}{2})\pi = (4n+1)\frac{\pi}{2}: \\ \cos \theta = 1: & \theta = 2n\pi : \sin \theta = \sin \alpha : \theta = \\ & n\pi + (-1)^n \alpha, \text{ where } \alpha \in [-\frac{\pi}{2}, \frac{\pi}{2}] \end{aligned}$$

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$\cos \theta = \cos \alpha : \theta = 2n\pi \pm \alpha$ , where  
 $(0, \pi] \tan \theta = \tan \alpha : \theta = n\pi + \alpha$ ,  
where  $\alpha \in (-\pi/2, \pi/2]$

Trigonometric Equations and General Solutions - Formulas ...

General Solution : The solution of a trigonometric equation giving all the



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admissible values obtained with the help of periodicity of a trigonometric function is called the general solution of the equation.

Principal Solution and General Solution of Trigonometric ...

General Solutions of a Trig Equation From the following diagram we see that  $\sin ($

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$\sin(-\theta) = -\sin \theta$  and  $\cos(-\theta) = \cos \theta$ . We use this to find the solutions of some trig equations. Solve  $\sin(x) = y$  for  $x$ .

General Solutions of Trigonometric Functions, Maths First ...

$x = n\pi + (-1)^n \theta$ , where  $n$  is integral multiple, is the general solution of the

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Equations  $\sin = k$  Trigonometric

Equations with their general Solutions: If  $\alpha$  is assumed to be the least positive value of  $x$  which satisfies two given trigonometrical equations, then the general value of  $x$  will be  $2n\pi + \alpha$ .

Trigonometric Equations & its Solutions -

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Therefore since the trig equation we are solving is  $\sin$  and it is positive (0.5), then we are in the 1st and 2nd quadrants. We have already found the first solution which is the acute angle from...

Solving trigonometric equations in degrees -

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$$2\sin^2(x) + 3 = 7\sin(x), x \in [0, 2\pi]$$
$$3\tan^3(A) - \tan(A) = 0, A \in [0, 360]$$
$$2\cos^2(x) - 3\cos(x) = 0, 0 < x < 360$$

Trigonometric Equation Calculator -  
Symbolab

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## General Solutions Of Trigonometric Equations

When solving a conditional equation, a general rule applies: if there is one solution, then there are an infinite number of solutions. This strange truth results from the fact that the trigonometric functions are periodic, repeating every 360 degrees or 2

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Trigonometric Equations: Solving General Equations ...

The general method of solving an equation is to convert it into the form of one ratio only. Then, using these results, we can obtain solutions. Solving basic equations can



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be taken care of with the trigonometric R method. Consider the following example:

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How are the general solutions to trigonometric equations derived? We just go the multiples of  $\pi$  and work out a pattern

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Trigonometric Equations : General Solutions - YouTube  
solutions of the given trigonometric equation. For  $k = 0$  obtained are,  $x_0 = \arcsin a$  and  $x_0 = \pi - \arcsin a$ , or  $x_0 = \sin^{-1} a$  and  $x_0 = \pi - \sin^{-1} a$ ,

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Trigonometric equations, trigonometric equation  $\sin x = a$

This trigonometry video tutorial shows you how to solve trigonometric equations using identities with multiple angles, by factoring, and by finding the gener...

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Solving Trigonometric Equations Using Identities, Multiple ...

> The general solution of  $\sin \theta = \sin \alpha$  is  $\theta = \alpha + 2n\pi$  or  $\theta = \pi - \alpha + 2n\pi$ , where  $n \in \mathbb{Z}$ .

obj 0000011732 00000 n >>> General Solution of Trigonometric Equations (i) If  $\sin \theta = \sin \alpha$  for some angle  $\alpha$ , then A general solution is a solution put in a

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compact form involving an integer and generalizes by means of periodicity. This gives a general formula for all the solutions.

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Find the general solution of the trigonometric equation  $\cos 4x = 0.5$

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$\equiv -\frac{49}{10}, 0, 1, 2, 3, \dots, \frac{79}{10} \pmod{2\pi}$

Question 2 (\*\*)

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The general solution of the equation  $\sin x + \cos x = 1$  is. A. ... Principal solution of trigonometric equations. 14 min. General

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solution of  $\sin x$ . 16 min. General solution of  $\cos x$ . 14 min. General solution of  $\tan x$ . 12 min. Problems on Principal Solutions. 11 min. [VIEW MORE](#). Quick summary with Stories.

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