

General Solutions Of Trigonometric Equations

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General Solutions of Trigonometric Equations $\sin x \sin x = 0$ implies $x = n\pi$, where $n \in \mathbb{Z}$ $\cos x \cos x = 0$ implies $x = (2n + 1)\pi/2$, where $n \in \mathbb{Z}$

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Therefore, the general solution for the given 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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Trigonometrical equations: General Solutions: $\sin \theta = 0$: $\theta = n\pi$: $\cos \theta = 0$: $\theta = (n\pi + \pi/2)$ $\cos \theta = 1$: $\theta = 2n\pi$: $\sin \theta = 1$: $\theta = (2n\pi + \pi/2)$ $\cos \theta = 1$: $\theta = 2n\pi$: $\sin \theta = \sin \phi$: $\theta = n\pi + (-1)^n \phi$, where $\phi \in [-\pi/2, \pi/2]$ $\cos \theta = \cos \phi$: $\theta = 2n\pi \pm \phi$, where $\phi \in (0, \pi]$ $\tan \theta = \tan \phi$: $\theta = n\pi + \phi$, where $\phi \in (-\pi/2, \pi/2]$

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General Solution : The solution of a trigonometric equation giving all the 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 $\sin(\pi - \theta) = \sin \theta$ and $\cos(-\theta) = \cos \theta$. We use this to find the solutions of some trig equations. Solve $\sin(x) = y$ for x .

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$\theta = n\pi + (-1)^n \phi$, where n is integral multiple, is the general solution of the equation $\sin \theta = k$ Trigonometric Equations with their general Solutions: If θ is assumed to be the least positive value of θ which satisfies two given trigonometrical equations, then the general value of θ will be $2n\pi + \theta$.

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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...

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

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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 2π radians.

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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 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 π and work out a pattern involving n an integer and the base a ...

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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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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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> The general solution of $\sin \theta = a$ is $\theta = \sin^{-1} a + 2n\pi$ or $\theta = \pi - \sin^{-1} a + 2n\pi$ for some angle θ , then A general solution is a solution put in a 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 $\cos 4x = 0.5$ ($x^\circ = ?$). $4 \times 9 \times 10 \times 0,1,2,3, \dots \times 7 \times 9 \times 10 \times n \times n$ 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 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.