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Solving Trigonometric  
Equations - How to Write  
General Solution

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Solving Trigonometric

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*General Solutions* ~~How to~~

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~~Trigonometric Equations  
find Principal and General  
Solution of Trigonometric  
equations easily? CBSE class  
11th Maths~~

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Find General Solution for  
Trig Equation  $\sin x$  equals  
negative  $\cos x$   
Trigonometric  
Equations : General

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~~Equation for cos, in Degrees~~  
*Grade 12 Maths: General*  
*solutions of trig equations*  
*Grade 11 Trigonometry,*

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Intro to Trigonometric  
Identities (part 1)~~How to  
find all the solutions to a  
trigonometric equation~~

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*Trigonometric Equations*

*Trigonometry Equations If  
Sin x=sin y Class 11 Maths*

*2019 Q11 Example:Solving  
Trigonometric Equation*

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*Trigonometry Example -  
Solving 1st degree equation  
with general solution set*

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~~Trigonometric Equations (3 of 3:  
Finding the general solution  
for  $\sin x$  \u0026amp; Why is it  
the hardest?) General  
Solution (1 of 3:  
Introduction to General  
Solutions and finding  
general solution of  $\tan x$ )~~

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MM6L General Solutions of  
Trig Equations **General**  
**solutions of trigonometric**  
**equations | Unit 3 and 4 VCE**  
**Maths Methods Trigonometric**  
~~Equations Class 11 — The~~  
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~~Trigonometric Equations~~  
the Principal and general  
solutions of any

trigonometric equations How  
~~to solve problems based on~~  
~~general solutions of~~  
~~trigonometric equations?~~

~~Vol. 1/6 General Solution~~  
~~for  $\sin x = \sin A$~~

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Trigonometry principal  
solutions and general  
solutions for IIT CBSE

*General Solutions Of  
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Trigonometric Equations

$$\sin x = 0$$

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

$$\cos x = 0$$

implies  $x = (2n + 1)\frac{\pi}{2}$

$n \in \mathbb{Z}$ , where  $n$

$n \in \mathbb{Z}$

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*General & Principal  
Solutions ...*

How to Find the General  
Solution of Trigonometric  
Equations? Trigonometric  
Equations. A trigonometric  
equation is different from a



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Trigonometric Identities.

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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*Trigonometric Equations*  
*How to Find the General  
Solution of Trigonometric  
Equations?*

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

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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:  $\sin \theta = 0$ :  $\theta = n\pi$ :  $\cos \theta = 0$ :  $\theta = (n\pi + \pi/2)$   
 $\cos \theta = 0$ :  $\theta = n\pi$ :  $\sin \theta = 1$ :  $\theta = (2n\pi +$

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

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*Trigonometric Equations and  
General Solutions - Formulas*

...

General Solution : The solution of a trigonometric equation giving all the admissible values obtained with the help of periodicity

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Trigonometric Equations  
of a trigonometric function  
is called the general  
solution of the equation.

*Principal Solution and  
General Solution of  
Trigonometric ...*

General Solutions of a Trig

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Equation From the following diagram we see that  $\sin (-\theta) = \sin \theta$  and  $\cos (-\theta) = \cos \theta$ . We use this to find the solutions of some trig equations. Solve  $\sin (x) = y$  for  $x$ .



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*Trigonometric Equations of  
Trigonometric Functions,  
Maths First ...*

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

Trigonometric Equations with

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Trigonometric Equations: If  $\theta$  is assumed to be the least positive value of  $\theta$  which satisfies two given trigonometrical equations, then the general value of  $\theta$  will be  $2n\theta + \theta$ .

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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

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Trigonometric Equations  
have already found the first  
solution which is the acute  
angle from...

*Solving trigonometric  
equations in degrees -  
Solving ...*

$$2\sin^2(x) + 3 = 7\sin(x), x$$

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Trigonometric Equations  
 $\tan(A) = 0, A \in [0, 360]$   
 $2\cos^2(x) - 3\cos(x) = 0, 0^\circ < x < 360^\circ$

*Trigonometric Equation  
Calculator - Symbolab*

This general solutions of

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When solving a conditional

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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,



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repeating every 360 degrees  
or  $2\pi$  radians.

*Trigonometric Equations:  
Solving General Equations*

...

The general method of  
solving an equation is to

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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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Wiki*

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

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

*Trigonometric Equations :*  
*General Solutions - YouTube*  
solutions of the given  
trigonometric equation. For

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*Trigonometric Equations*  
k = 0 obtained are,  $x_0 =$   
 $\arcsin a$  and  $x_0 = p -$   
 $\arcsin a$ , or  $x_0 = \sin^{-1} a$   
and  $x_0 = p - \sin^{-1} a$ ,

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

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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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*Solving Trigonometric  
Equations Using Identities,  
Multiple ...*

> The general solution of  $7\hat{U} + \hat{U} = 2$  is %PDF-1.5  
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0000011732 00000 n >>>

General Solution of

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Trigonometric Equations (i)

If  $\sin \theta = \sin \alpha$  for some angle  $\theta$ , 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



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*general solutions of  
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Find the general solution of  
the trigonometric equation  
 $\cos 4x = 0.5$  ( $x^\circ = ?$ ).  
 $x = 0, 1, 2, 3, \dots$

# Where To Download General Solutions Of Trigonometric Equations Question 2 (\*\*)

*trigonometric general  
solutions - MadAsMaths*

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

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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.  
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