

Solving Trigonometric Equations



Solve the following equations for $0^\circ \leq x \leq 360^\circ$.
Give answers to 1 decimal place.

1) $\sin x = 1$

2) $\tan x = 1$

3) $\cos x = 1$

4) $\sin x = 0.5$

5) $\cos x = 0.6$

6) $\tan x = 0.2$

7) $7 \cos x = 3$

8) $2 \tan x = \frac{1}{4}$

9) $8 + 3 \sin x = 10$

10) $\tan x = -1$

11) $\sin x = -0.9$

12) $\tan x = -0.1$

13) $7 + 8 \sin x = 4$

14) $\sin 2x = 0.2886$

15) $\cos 3x = -0.3321$

16) $\sin (x + 20^\circ) = 0.6551$

17) $\tan (x - 15^\circ) = -0.9128$

18) $\cos (2x + 33^\circ) = 0.306$

19) $\tan^2 x = \frac{1}{4}$

20) $\cos^2 x = \frac{1}{2}$

Springboard Solving Simple Trigonometric Equations Answers

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Current Index to Journals in Education, 1983 Top Shelf Walch Publishing, 2003 Covers sum and difference formulas trigonometric equations inverse trigonometric functions and more Builds concept development with challenging problems and exercises Meets National Mathematics standards **Trigonometry** Wendy Lawson, Nghi H. Nguyen, 2005 Includes solving trigonometric equations and inequalities triangle trigonometry basic trigonometric functions and identities graphic approach to solving inequalities and systems of trigonometric inequalities using graphing calculators Trigonometry For Dummies Mary Jane Sterling, 2023-01-31 Make trigonometry as easy as 1 2 3 Believe it or not trigonometry is easier than it looks With the right help you can breeze through your next trig class test or exam and be ready for your next math challenge In *Trigonometry For Dummies* you will learn to understand the basics of sines cosines and tangents graph functions solve tough formulas and even discover how to use trig outside the classroom in some cool and interesting ways Ditch the confusing jargon and take a plain English tour of one of the most useful disciplines in math In this lifesaving guide you will learn how to Graph trig functions including sine cosine tangent and cotangent functions Understand inverse trig functions and solve trig equations Relate triangles to circular functions and get a handle on basic identities So whether you're looking for an easy to use study guide to boost your math grade or get a refresher on some basic trig concepts after a long absence from studying *Trigonometry For Dummies* is your ticket to understanding the mathematical mysteries of the triangle **Learning**

Trigonometry By Problem Solving Alexander Rozenblyum, Leonid Rozenblyum, 2021-06-25 In this book trigonometry is presented mainly through the solution of specific problems The problems are meant to help the reader consolidate their knowledge of the subject In addition they serve to motivate and provide context for the concepts definitions and results as they are presented In this way it enables a more active mastery of the subject directly linking the results of the theory with their applications Some historical notes are also embedded in selected chapters The problems in the book are selected from a variety of disciplines such as physics medicine architecture and so on They include solving triangles trigonometric equations and their applications Taken together the problems cover the entirety of material contained in a standard trigonometry course which is studied in high school and college We have also added some interesting in our opinion entertainment problems To solve them no special knowledge is required While they are not directly related to the subject of the book they reflect its spirit and contribute to a more lighthearted reading of the material Algebra, Parabola, and Trigonometric Equations Which Can Be Used on Sides of Right Triangles Colin Gardner, 2006-06-01 Provides new parameters for the quadratic equation such that two dozen or more trigonometric equations using these same parameters provide identical results Twenty two of these trigonometric equations have six different looking coefficients which make them all equal to one quadratic equation Each equation using these same parameters has three sets of new parameters which make them so they can be on sides of right triangles with six sets that will do this is included Each quadratic equation having an integer

solution has also a Pythagorean equation which has identical answers Equations to this is provided One set of data is provided that makes this all possible with the three answers one for each side being provided Non integer solutions are also possible Each set of equations or integers on the sides of right triangles can be put into a parabolic form that is what you see on the two legs of a right triangle can be added together to obtain the correct equation or integer on its hypotenuse These three new quadratic dependent coefficients can be produced by four independent variables with criteria on how to use them is provided Conversion equation between the three and four types of new parameters is provided Equations to make many new parabolic equations is provided with one example being provided A table of over a dozen different algebra equations which have two or three different trigonometric equations which have equal answers is shown with angle criteria to ensure that this is true Six conventional sets of normal trigonometric equations which can easily be put on sides on right triangles is provided along with four sets containing sines and cosines on each triangle side but with different coefficients Two examples showing how to convert normal quadratic equation coefficients to the three new coefficients is provided along with answers A third quadratic equation is given only with answers Algebraic equation conversions to each quadratic equation is provided Next parameters which define five different data variations for each algebra and trigonometric is provided with one same answer for each making 15 different solutions Five different trigonometric equations using these same new quadratic coefficients are provided with all having the same identical answers as shown Next one set of trigonometric equations is shown on the sides of two different right triangles each with different coefficients What follows is a table of equation coefficients which can be expanded both in the horizontal as well as in the vertical direction to be as large as one desires based upon any two desired selected sets of data Equations to do this are provided A special computer program which is required to compute these and any future coefficients is provided This program has the capability to produce 3X3 tables of Pythagorean triples which meets a $2b^2 + c^2$ criteria in both the horizontal as well as in the vertical direction A table of these is provided A set of equations is provided to convert 2nd order algebraic equations which are on the sides of a right triangle to parabolic quadratic and one having sines and cosines on each triangle side is provided One example of using sines and cosines on a right triangle side to convert ANY other set of equations or integers to become a new set of similar equations or integers is also provided with one example

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filled with instructive exercises and their solutions plus illustrative drawings graphs and diagrams This new edition contains updated coverage on using graphing calculators and computer spreadsheets for solving trigonometric problems **The Algebra & Trigonometry Problem Solver** Research and Education Association,2000 *Solutions of Trigonometric Equations* Dean Vakakis,Beth Marr,J. Brolan,1982* *Essentials of Trigonometry* Smith,William David Reeve,Edward Longworth Morss,1928 *Trigonometry* Jerome E. Kaufmann,1994

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