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this book is panacea for students of high school general competitions teachers 11th 12th 12th pass out students iit jee sat and olympiad in this book all the formulae of trigonometric ratios and identities are 100 based on trick which can be easily memorized i have given a trick for height and distance help of which mostly questions of height and distance can be solved easily i have also given about 90 formulae based on trick in elementary trigonometry which can be easily memorized many students have a major problem that draw the graph of trigonometric functions don t worry in this book i have given an algorithm to draw the graph of trigonometric functions easily graph of trigonometric function plays major role in general solution trigonometric inequality and in calculus in 1st and 2nd exercises the questions asked in the general competition examination have been inserted which will prove to be very useful in terms of competition examination the 1st and 2nd exercises are also useful for high school students in the rest all the exercises advance questions have been inserted which will

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this book is a handbook on topics in plane trigonometry for students in middle high school we have covered the topics like measurement of angles basic trigonometric ratios trigonometric ratios across the 4 quadrants trigonometric functions of angles of any size and sign general expressions for all trigonometric ratios trig ratios of sum and difference of two angles multiple and sub multiple angles solutions of triangles heights and distances and inverse circular functions each chapter is follows a simple structure a definition of terms and detailed explanation of concepts followed by derivation of useful formulas through first principles a few problems are solved in order to give a flavor of the problem solving process this book is intended to help the student to understand ways to build an airtight reasoning on how the problem solving process moves towards the final answer this serves as a demonstration of our understanding of the subject basics formulas and methods of manipulation

since last 2500 years respectful mathematicians worked for trigonometric values differently the determined 6 major and further 10 less common trigonometric ratios many modern mathematicians worked for exact values too in this book there are five methods for determination of trigonometric ratios one named as vatsa method is ratio based it discovered new sum of natural number theory of vatsa remaining four methods are based on chord a and supplementary chords b or their product ab we can find exact trigonometric values for all integer angles and polygons for the remaining concept of appropriate accuracy adopted herewith for example square root of 3 is irrational therefore so called exact value of sine based on square root 3 is not exact rather with appropriate accuracy for the user same concept has used for appropriate accuracy in this book trigonometric ratios are determined under 1 arc line method 1 2 to 1 hour to study or teaching 2 series method 1 hour to study or teaching 3 angle rewritten method 1 hour to study or teaching 4 precise rewritten method 1 2 to 1 hour to study or teaching 5 vatsa method 1 hour to study or teaching this book developed new method for trigonometric values with basis of square root of 2 only

breaking classical rules in trigonometry mission 2050 new method to find trigonometric values for one third angle of a known angle it suggest a simple method to solve the cubic equation involved in the one third angles the method does not use an imaginary number root nor use a complex depression method learning new method may be for one hour study new theorem has introduced to trigonometric values of one third angle through crd 120 of sin 60 route same concept has promoted for one fifth angle as 72 and 36 route for 5 roots of one fifth angle use of 120 a 72 a 36 a 30 a 25 7 a 24 a or 75 a etc opens new area for the trigonometry this book suggest the method for other higher degree equation for solving trigonometric identities the book solves the complexities faced since 2000 years

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