





# Seven Figure Trigonometric Tables

**Hussin A.Rothana**





## Seven Figure Trigonometric Tables:

*Six-Figure Tables of Trigonometric Functions* L. S. Khrenov, 2014-06-16 THE PRESENT six figure trigonometric tables complete the series of tables of the natural values of the trigonometric functions published by Fizmatgiz Now that small computers have become very widely available almost all computations are carried out by machine and the majority of computational schemes are suited to this purpose The situation calls urgently for the availability of tables containing the natural values of all six trigonometric functions The following special factor emerges here In logarithmic computations the same relative accuracy is guaranteed more or less automatically for all values of the argument the number of correct significant figures in the result is either equal to or in rare cases one less than the number of significant figures in the mantissa of the logarithm In computations with natural values of the functions the same relative accuracy is guaranteed in practice for all arguments only by having a constant number of significant figures throughout the tables Until recently however tables of the natural values of the trigonometric functions have been compiled both in Russia and abroad with the same number of places after the decimal point which leads to a loss of accuracy when computing with functions of small angles In view of this there is an urgent need for tables of the natural values of the trigonometric functions with a constant number of significant figures which substantially guarantees roughly the same relative accuracy for all angles The present tables together with the following already published by Fizmatgiz Five figure Tables L S Khrenov 1954 Five figure Tables with the Argument in Time L S Khrenov 1954 Seven figure Tables L S Khrenov 1956 and Six figure Tables with the Argument in Time S A Angelov 1957 form a complete series with the same number of significant figures satisfying the main requirements of a wide variety of computers When compiling the present tables use was made for purposes of collation of the following tables of the natural values of the trigonometric functions The One figure Table of H Andoyer Paris 1915 1918 the Eight figure Table of J Peters Berlin 1939 the Seven figure Table of L S Khrenov 2nd ed Gostekhizdat 1956 the Seven figure Table of H C Ives and the Eight figure Tables of the Logarithm of Numbers and of the Trigonometric functions of J Bauschinger and J Peters Geodezizdat 1942 and 1944 **Drawing the Line** Edwin Danson, 2001 Set in the social and historical context of pre Revolutionary America this book is a spellbinding account of one of the great and historic achievements of its time **BOOK JACKET** **Tables of Trigonometric Functions** United States. Office of Scientific Research and Development. Applied Mathematics Panel, 1943 **A Treatise on Plane and Spherical Geometry** William Chauvenet, 1887 *A Treatise on Plane and Spherical Trigonometry* William Chauvenet, 1901 **A Treatise on Plane and Spherical Trigonometry** WILLIAM. CHAUVENET, 2024-03-12 Reprint of the original first published in 1876 **Logarithmic Tables of Numbers and Trigonometric Functions** Georg Freiherr von Vega, 1887 *Tables of Normalized Associated Legendre Polynomials* S. L. Belousov, 2014-05-15 Tables of Normalized Associated Legendre Polynomials 1962 helps to resolve many problems in which a role is played by functions defined on the surface of a sphere to write the functions as series in an orthogonal system



of functions     **A Treatise on Plane and Spherical Trigonometry** Edward Albert Bowser,1892     Logarithmic and Trigonometric Tables Ferdinand Rudolph Hassler,1830     **Five-place logarithmic and trigonometric tables, with expanatory chapter** Claude Irwin Palmer,1914     Mathematics at the Meridian Raymond Flood,Tony Mann,Mary Croarken,2019-11-11 Greenwich has been a centre for scientific computing since the foundation of the Royal Observatory in 1675 Early Astronomers Royal gathered astronomical data with the purpose of enabling navigators to compute their longitude at sea Nevil Maskelyne in the 18th century organised the work of computing tables for the Nautical Almanac anticipating later methods used in safety critical computing systems The 19th century saw influential critiques of Charles Babbage s mechanical calculating engines and in the 20th century Leslie Comrie and others pioneered the automation of computation The arrival of the Royal Naval College in 1873 and the University of Greenwich in 1999 has brought more mathematicians and different kinds of mathematics to Greenwich In the 21st century computational mathematics has found many new applications This book presents an account of the mathematicians who worked at Greenwich and their achievements Features A scholarly but accessible history of mathematics at Greenwich from the seventeenth century to the present day with each chapter written by an expert in the field The book will appeal to astronomical and naval historians as well as historians of mathematics and scientific computing     A Treatise on Plane and Spherical Trigonometry ... Second edition William CHAUVENET,1851     **Companion Encyclopedia of the History and Philosophy of the Mathematical Sciences** Ivor Grattan-Guinness,2004-11-11 First published in 2004 Routledge is an imprint of Taylor Francis an informa company     **Handbook for Computing Elementary Functions** Lazar' Aronovich Liūsternik,O. A. Chervonenkis,1965     *The History of Mathematical Tables* Martin Campbell-Kelly,Mary Croarken,Raymond Flood,Eleanor Robson,2003-10-02 The oldest known mathematical table was found in the ancient Sumerian city of Shuruppag in southern Iraq Since then tables have been an important feature of mathematical activity table making and printed tabular matter are important precursors to modern computing and information processing This book contains a series of articles summarising the technical institutional and intellectual history of mathematical tables from earliest times until the late twentieth century It covers mathematical tables the most important computing aid for several hundred years until the 1960s data tables eg Census tables professional tables eg insurance tables and spreadsheets the most recent tabular innovation The book is presented in a scholarly yet accessible way making appropriate use of text boxes and illustrations Each chapter has a frontispiece featuring a table along with a small illustration of the source where the table was first displayed Most chapters have sidebars telling a short story or history relating to the chapter The aim of this edited volume is to capture the history of tables through eleven chapters written by subject specialists The contributors describe the various information processing techniques and artefacts whose unifying concept is the mathematical table     **Journal of Research of the National Bureau of Standards** United States. National Bureau of Standards,1933     **Bureau of Standards Journal of Research** United States. National Bureau of



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web stoichiometry stoichiometry practice problems this is a comprehensive end of chapter set of practice problems on stoichiometry that covers balancing chemical equations

5 2 1 practice problems reaction stoichiometry chemistry - Oct 16 2023

web the number of moles and the mass in kg of copper ii carbonate needed to decompose in order to produce 1 500 kg of copper ii oxide where  $\text{CO}_2$  is the other product the

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web if the molecular weight of glucose is 180 grams mol and the molar mass of ethanol is 46 g mol how many grams of carbon dioxide are produced when 1 mol of glucose is

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web simple stoichiometry only one given one wanted limiting reagents only two given reactants one wanted product a mix of both simple stoichiometry and limiting reagent



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chemistry question bank with model

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web apr 27 2023 explain the concept of stoichiometry as it pertains to chemical reactions use balanced chemical equations  
to derive stoichiometric factors relating amounts of