

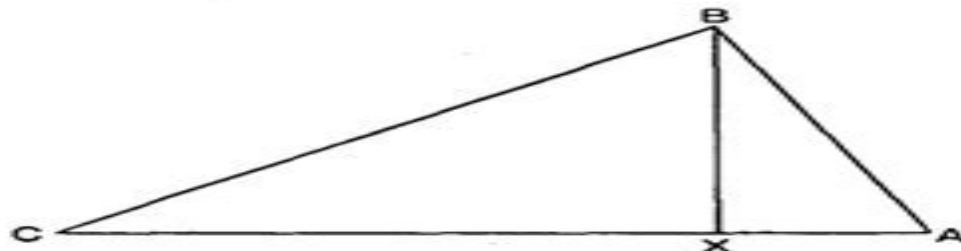
MATHEMATICAL NOTES.

961. [v. 1. a. 6.] *Solution of Triangles in Numerical Trigonometry.*

The Syllabus of Numerical Trigonometry usually excludes treatment of compound-angles and half-angles.

The solutions of Δ s with the data (i) a, b, C , (ii) a, b, c , are possible by the cosine formula, but the computation is forbidding.

For (i), the following method, which is Bryan's method in symbolical form, is simple and self-checking.



ABC is a triangle: BX is perpendicular to AC .

$$\cot A = AX/BX = (AC - CX)/BX = AC/BX - CX/BX \\ = b/(a \sin C) - \cot C = (b/a) \operatorname{cosec} C - \cot C.$$

Similarly $\cot B = (a/b) \operatorname{cosec} C - \cot C$.

Given $a = 37.23$, $b = 43.71$, $C = 50^\circ 29'$.

		Numerical Values.	logs.
$\cot A =_{10}[-.1824] - .8248$	a	37.23	1.5709
$= 1.522 - .825$	b	43.71	1.6406
$= .697$	a/b		1.9303
$\cot B =_{10}[-.0430] - .8248$	b/a		.0697
$= 1.104 - .825$	$\operatorname{cosec} C$	$\operatorname{cosec} 50^\circ 29'$	.1127
$= .279$	$\cot C$	.8248	

Whence $A = 55^\circ 7'$ and $B = 74^\circ 24'$.

(As these values depend on 3 figure results they are not reliable to the nearest minute.)

Check, $A + B + C = 180^\circ 0'$.

Check in the working of: $-\log b/a + \log a/b = 0$.

Note.— $1/\sin C$ can be used for $\operatorname{cosec} C$; but it may be that at the stage where this formula becomes useful, it is convenient to have a reason for introducing the cosecant.

For (ii), it is necessary to prove $\Delta = \sqrt{s(s-a)(s-b)(s-c)}$, a generalisation of what is done in Bryan's method.

From this

$$\sin A = 2\Delta/(bc), \text{ etc.}$$

The advantage of this method is that it requires very little more working to get A, B and C than to get A , and it is self-checking.

Numerical Trigonometry

Xiaolong Qi



Numerical Trigonometry:

Numerical Trigonometry Percival Abbott, 1918 **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 **Numerical Trigonometry ... (Mathematical Tables.)**. Percival Abbott, 1918 Modern Methods of Teaching Mathematics Shalini Wadhwa, 2004 The Teaching of Junior High School Mathematics David Eugene Smith, William David Reeve, 1927 **The Mathematical Gazette**, 1920 The American Mathematical Monthly, 1929 Includes section Recent publications *The Best Books: H, Natural science. H*, Medicine and surgery. I, Arts and trades.* 1926 William Swan Sonnenschein, 1926 **The Reorganization of Mathematics in Secondary Education** National Committee on Mathematical Requirements, 1923 Trigonometry I.M. Gelfand, Mark Saul, 2012-12-06 In a sense trigonometry sits at the center of high school mathematics It originates in the study of geometry when we investigate the ratios of sides in similar right triangles or when we look at the relationship between a chord of a circle and its arc It leads to a much deeper study of periodic functions and of the so called transcendental functions which cannot be described using finite algebraic processes It also has many applications to physics astronomy and other branches of science It is a very old subject Many of the geometric results that we now state in trigonometric terms were given a purely geometric exposition by Euclid Ptolemy an early astronomer began to go beyond Euclid using the geometry of the time to construct what we now call tables of values of trigonometric functions Trigonometry is an important introduction to calculus where one studies what mathematicians call analytic properties of functions One of the goals of this book is to prepare you for a course in calculus by directing your attention away from particular values of a function to a study of the function as an object in itself This way of thinking is useful not just in calculus but in many mathematical situations So trigonometry is a part of pre calculus and is related to other pre calculus topics such as exponential and logarithmic functions and complex numbers **Catalog Number** Indiana State Teachers College, 1927 Index to Mathematical Problems, 1980-1984 Stanley Rabinowitz, 1992 A compendium of over 5 000 problems with subject keyword author and citation indexes **Journal of Education and School World**, 1918 Thesaurus of ERIC Descriptors, 1977 *Course of Study in Mathematics* Pennsylvania. Department of Public Instruction, 1927 *Mathematics: NavPers 10070-A* United States. Bureau of Naval Personnel, 1951 **The Mathematics Teacher**, 1921 *The Circle of the Sciences* Encyclopaedias, 1873 *Teaching Junior High School Mathematics* Harry Clark Barber, 1924 This book is addressed to teacher and school officials and considers recent proposals for improvement in the content and teaching of arithmetic algebra and geometry It discusses the question whether it is possible to give the children of these grades a broad and interesting view of the field of elementary mathematics without sacrificing sound scholarship Nearly all of the material presented here has been used repeatedly and effectively not only in defining the new mathematics in the minds of educators but also in giving them practical assistance in

putting it into successful operation It may be of interest to all educators who deal with the problems of the mathematics from grade six through the high school and the pages on approximate computation may be of interest also to teachers of science

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