

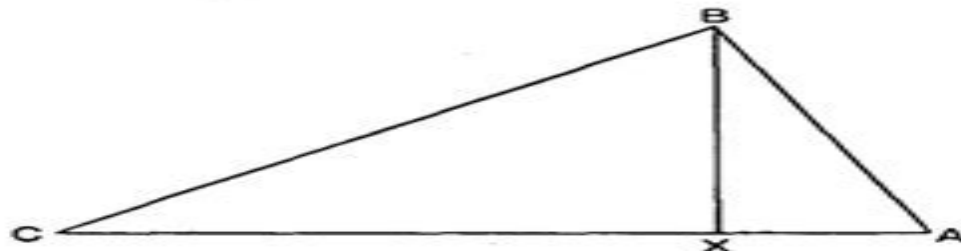
MATHEMATICAL NOTES.

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

R Bogdan



Numerical Trigonometry:

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