

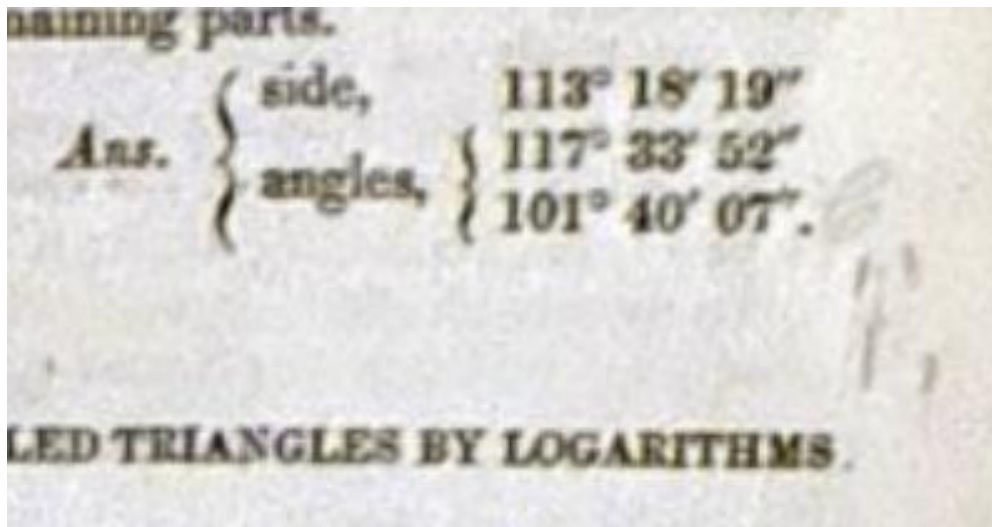
Book Title: Elements of Geometry and Trigonometry

Author: A. M. Legendre and David Brewster

Accession Number: 87.145

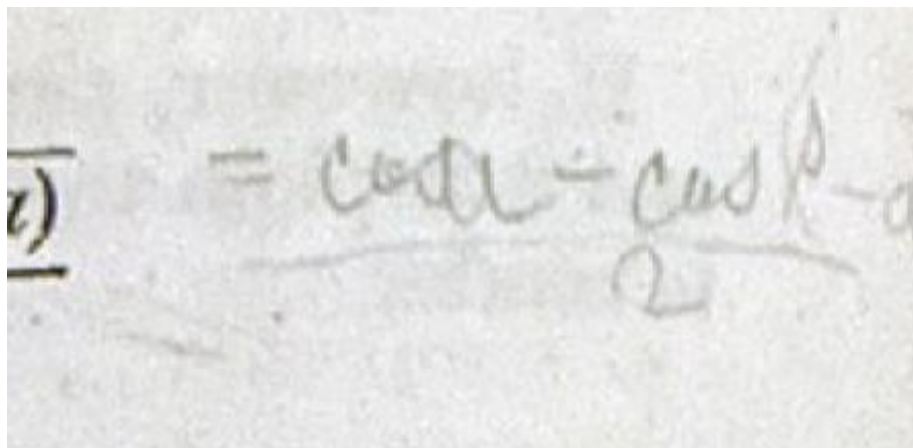
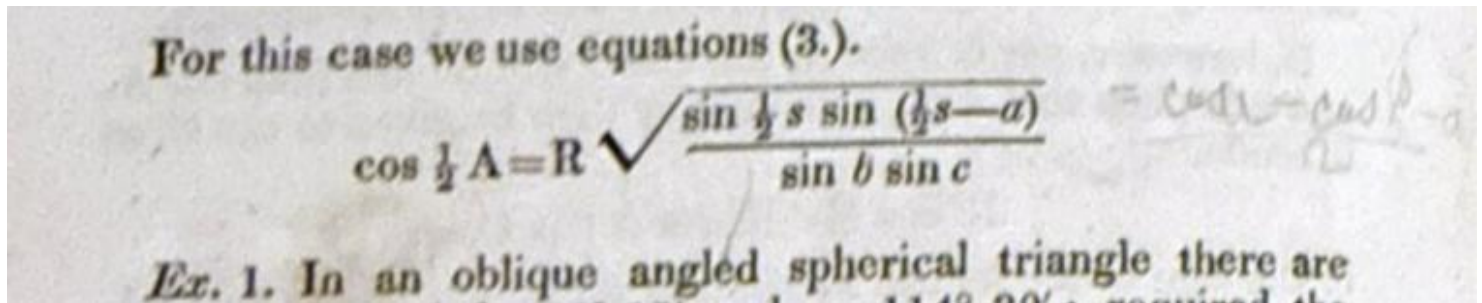
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"C" and marks at bottom right hand side.

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$$= \frac{\cos - \cos (R-a)}{2}$$

Sum	0.050506
Half sum = $\log \cos \frac{1}{2}A = 28^\circ 19' 48''$	19.889198
	9.944599

Hence, side $a = 56^\circ 39' 36''$.

In a similar manner we find,

$b = 114^\circ 29' 58''$
 $c = 83^\circ 12' 06''$

Ex. 2. In a spherical triangle ABC, there are given $A = 109^\circ 5' 42''$, $B = 116^\circ 38' 33''$, and $C = 120^\circ 43' 37''$; required the three sides.

$$\text{Ans. } \begin{cases} a = 98^\circ 21' 40'' \\ b = 109^\circ 50' 22'' \\ c = 115^\circ 13' 26'' \end{cases}$$

CASE V.

Having given in a spherical triangle, two sides and their in-

Scratched out mark with an "a" to relace it.

".26"

".30" with hash marks at bottom right hand side

Ex. 2. In a spherical triangle ABC, there are given $b = 83^\circ 19' 42''$, $c = 23^\circ 27' 46''$, the contained angle $A = 20^\circ 39' 48''$; to find the remaining parts.

$$\text{Ans. } \begin{cases} B = 156^\circ 30' 16'' \\ C = 9^\circ 11' 48'' \\ a = 61^\circ 32' 12''.11 \end{cases}$$

"46"

".11"

Ans. $\begin{cases} a = 40^\circ 0' 10'' \\ b = 50^\circ 10' 30'' \\ C = 58^\circ 23' 41'' \end{cases}$ all right
 148342

"all right"
 "1483421"

MENSURATION OF SOLIDS. 289

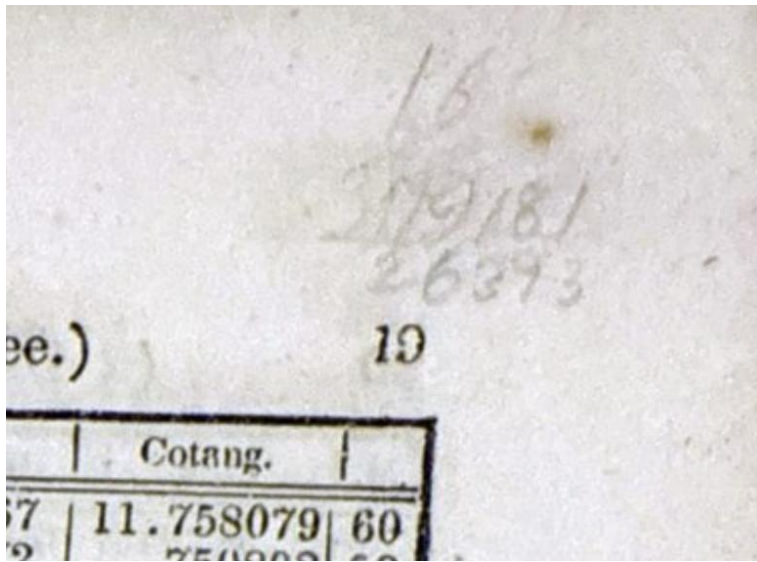
Let $L=AB$, the length of the base.
 $l=GH$, the length of the edge.
 $b=BC$, the breadth of the base.
 $h=PG$, the altitude of the wedge.

Then, $L-l=AB-GH=AM$.

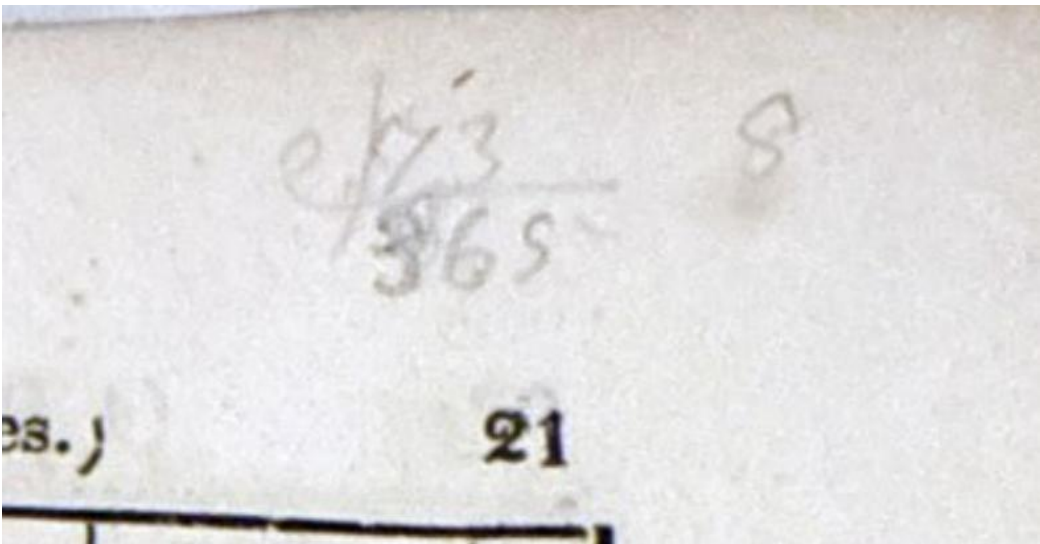
y 20 feet, the edge 35 feet, solidity?
 Ans. 3833.33.
 8 feet by 9, the edge 20 the solidity?
 Ans. 504.

III.
 tangular prismoid.
 e two bases and four times equal distances from the ne-sixth of the altitude.

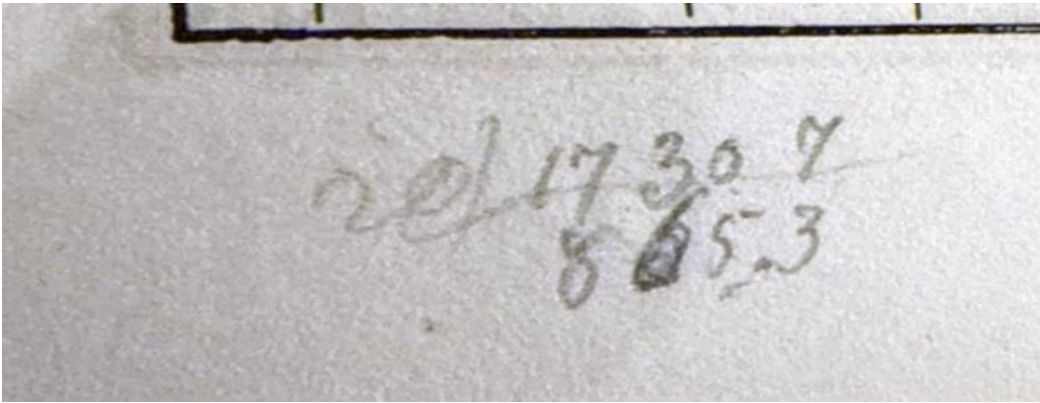
"L"
 "L"
 "L"
 "L"
 On geometric figure
 Hash marks at bottom right hand side.



"16 3819181 26393"



e | 73 8
| 365

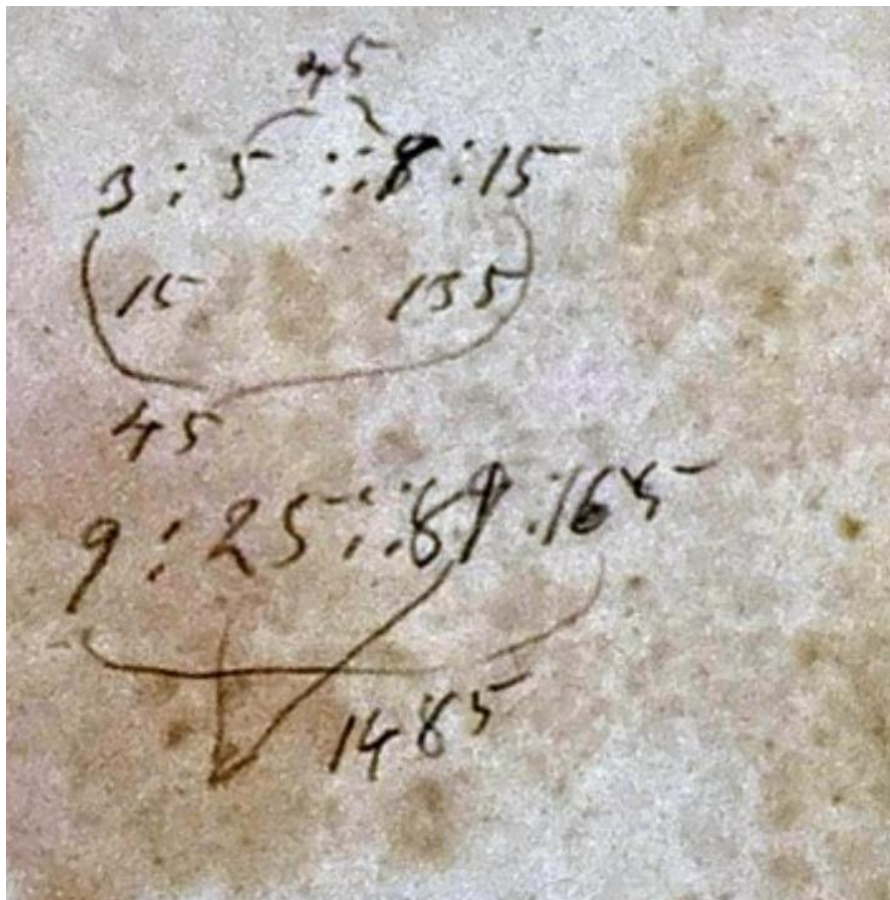


20 | 1730 7
| 865.3

19	273388	1101	992214	40	281174	1141
50	274049	1099	992190	40	281858	1140
51	9.274708	1098	9.992166	40	9.282542	1138
52	275367	1096	992142	40	283225	1136
53	276024	1094	992117	41	283907	1135
54	276681	1092	992093	41	284588	1133
55	277337	1091	992069	41	285268	1131
56	277991	1089	992044	41	285947	1130
57	278644	1087	992020	41	286624	1128
58	279297	1086	991996	41	287301	1126
59	279948	1084	991971	41	287977	1125
60	280599	1082	991947	41	288652	1123
	Cosine		Sine		Cotang.	

79 Degrees.

"79" to replace 97
text



Number family trees:

```

" 45
  / \
 3 : 5 :: 8 : 15
 15  135
   45
 9 : 25 :: 81 : 165
        1485      "

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