

$s = 66^{\circ}, 46'$	$s = 66^{\circ}, 47'$
feu	feu
$s = 4006'$	$s = 4007'$
$2s = 8012'$	$2s = 8014'$
$l. 2s = 3, 9037409$	$3, 9038493$
$3, 5362739$	$3, 5352739$
$l. 2s = 0, 3674670$	$0, 3675754$
$l. tang. s = 0, 3672499$	$0, 3675985$
Error $+ 2171$	$- 231$
231	
$2402 : 2171 = 1' : 54'', 14'''$	

unde erit

Arcus $s = AD = 66^{\circ}, 46', 54'', 14'''$,

hincque

Tangens $AE = 2, 3311220$. Q. E. F.

538. Proponatur nunc sequens.

P R O B L E M A V I I I.

Proposito Circuli quadrante ACB invenire Arcum AE, qui
 equalis sit Chorda sue AE ad occursum F usque producta.

TAB.
XXIX.
Fig. 118.

S O L U T I O.

Sit Arcus $AE = s$, erit ejus Chorda $AE = 2 \sin. \frac{1}{2} s$, fi-
 nus versus $AD = 1 - \cos. s = 2 \sin. \frac{1}{2} s \sin. \frac{1}{2} s$: unde
 Triangula similia ADE , ACF , dabunt $2 \sin. \frac{1}{2} s \sin. \frac{1}{2} s$:
 $2 \sin. \frac{1}{2} s = 1 : s$, eritque ergo $s \sin. \frac{1}{2} s = 1$. Fiant ergo
 sequentes positiones

R r 3

 $s =$