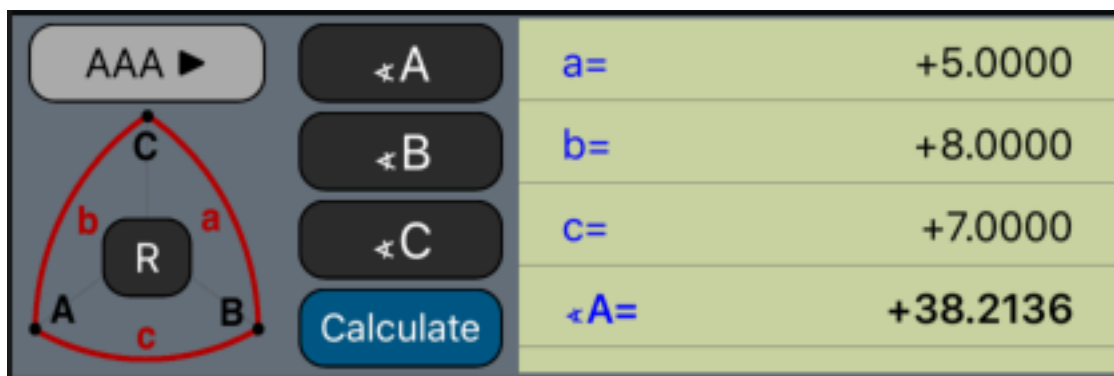


Spherical Triangle Solution Menu

This menu allows you to resolve a spherical triangle in the surface of sphere of default radius 1. To show the menu, touch the “**SCI ►**” button in the main menu, and select the “**Spherical Triangle**” option.



Mode	AAA	AAS	ASA	SAS	SSA	SSS
Inputs	[◀A] [◀B] [◀C]	[a] [◀A] [◀B]	[c] [◀A] [◀B]	[a] [b] [◀C]	[b] [c] [◀B]	[a] [b] [c]
[R]	Radius input to scale side lengths. By default, the sphere has radius 1.					
[Calculate] Outputs	a c ◀C	b c ◀C	a b ◀C	c ◀A ◀B	a ◀A ◀C	◀A ◀B ◀C
	Perimeter and Area of the triangle.					

Example: (AAA)

Given a spherical triangle with interior angles of 89° , 66° and 70° , what is triangle area and perimeter if it is in a sphere of radius 1000 meters?.

Solution : (DEG angle mode)

Keystrokes	Description
[AAA]	Set 'AAA' calculation mode.
89 [↵A] 66 [↵B] 70 [↵C]	Store the angle 'A'. Store the angle 'B'. Store the angle 'C'.
1000 [R]	Stores the sphere radius.
[Calculate]	Calculates the triangle and updates the result list: a = 1,387.39 b = 1,116.02 c = 1,178.60 ↵A = 89.00 ↵B = 66.00 ↵C = 70.00 R = 1,000.00 Per. = 3,682.02 Area = 785,398.16
Touch any of the list table row to input the value in the calculator	

Example: (SSS)

In a triangle ABC, the sides are 6 cm, 10 cm and 14 cm. Show that the triangle is obtuse angled with the obtuse angle equal to 120° .

Solution : (DEG angle mode)

Keystrokes	Description
[SSS]	Set 'SSS' calculation mode.
6 [a] 10 [b] 14 [c]	Store the 'a' side length. Store the 'b' side length. Store the 'C' angle.
[Calculate]	Calculates the triangle and updates the result list: a = 6.00 b = 10.00 c = 14.00 ∠A = 21.79 ∠B = 38.21 ∠C = 120.00 R = 1,000.00 Per. = 30.00 Area = 25.98
Touch any of the list table row to input the value in the calculator	