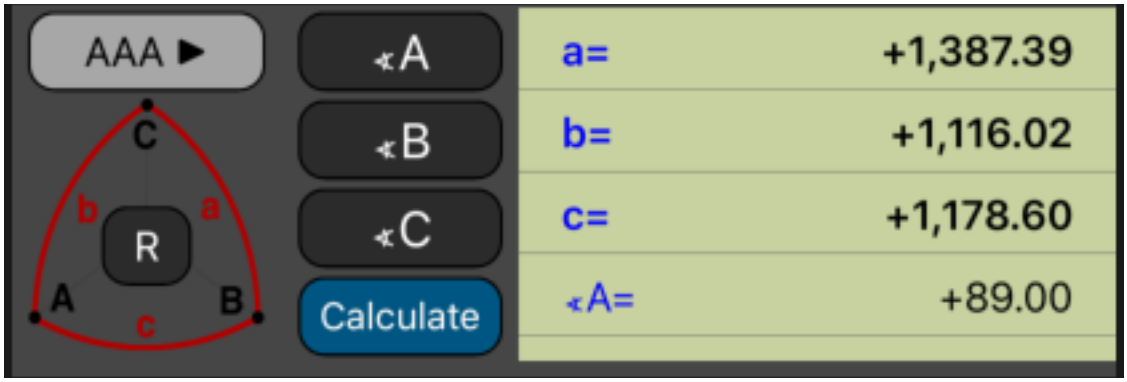
Spherical Triangle Solution Menu

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 89º, 66º and 70º , 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 120º.

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	