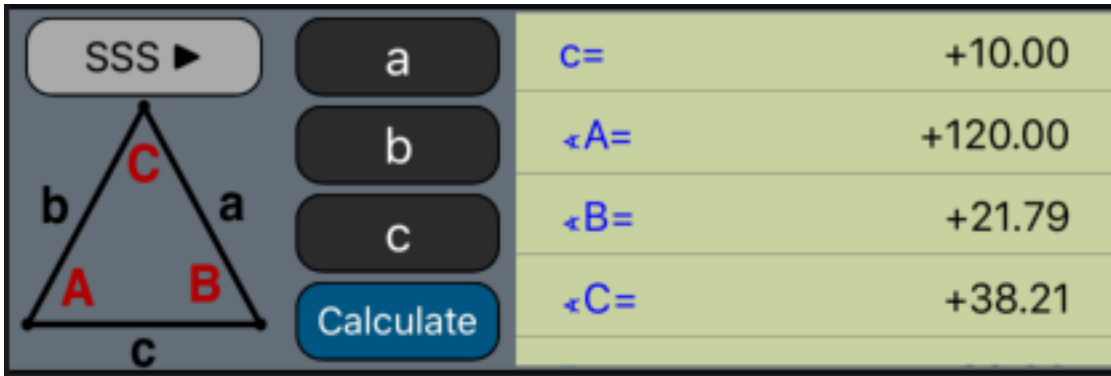


Plane Triangle Solution Menu

This menu allows you to resolve a triangle knowing 3 values where, at least one, must be the length of a side. To show the menu, touch the “**SCI ▶**” button in the main menu, and select the “**Triangle Solution**” option.



Mode	AAS	ASA	SAS	SSA	SSS
Inputs	[b] [$\sphericalangle A$] [$\sphericalangle B$]	[c] [$\sphericalangle A$] [$\sphericalangle B$]	[a] [b] [$\sphericalangle C$]	[b] [c] [$\sphericalangle B$]	[a] [b] [c]
[Calculate] Outputs	a c $\sphericalangle C$	a b $\sphericalangle C$	c $\sphericalangle A$ $\sphericalangle B$	a $\sphericalangle A$ $\sphericalangle C$	$\sphericalangle A$ $\sphericalangle B$ $\sphericalangle C$
Perimeter and Area of the triangle.					

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

Example: (SAS)

Two sides of a triangle are 5 and 8 units and their included angle is 60° . Solve the triangle and, What is the triangle's area and perimeter?

Solution : (DEG angle mode)

Keystrokes	Description
[SAS]	Set 'SSS' calculation mode.
5 [a] 8 [b] 60 [\angle 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 = 5.00 b = 8.00 c = 7.00 \angleA = 38.21 \angleB = 81.79 \angleC = 60.00 Per. = 20.00 Area = 17.32
Touch any of the list table row to input the value in the calculator	