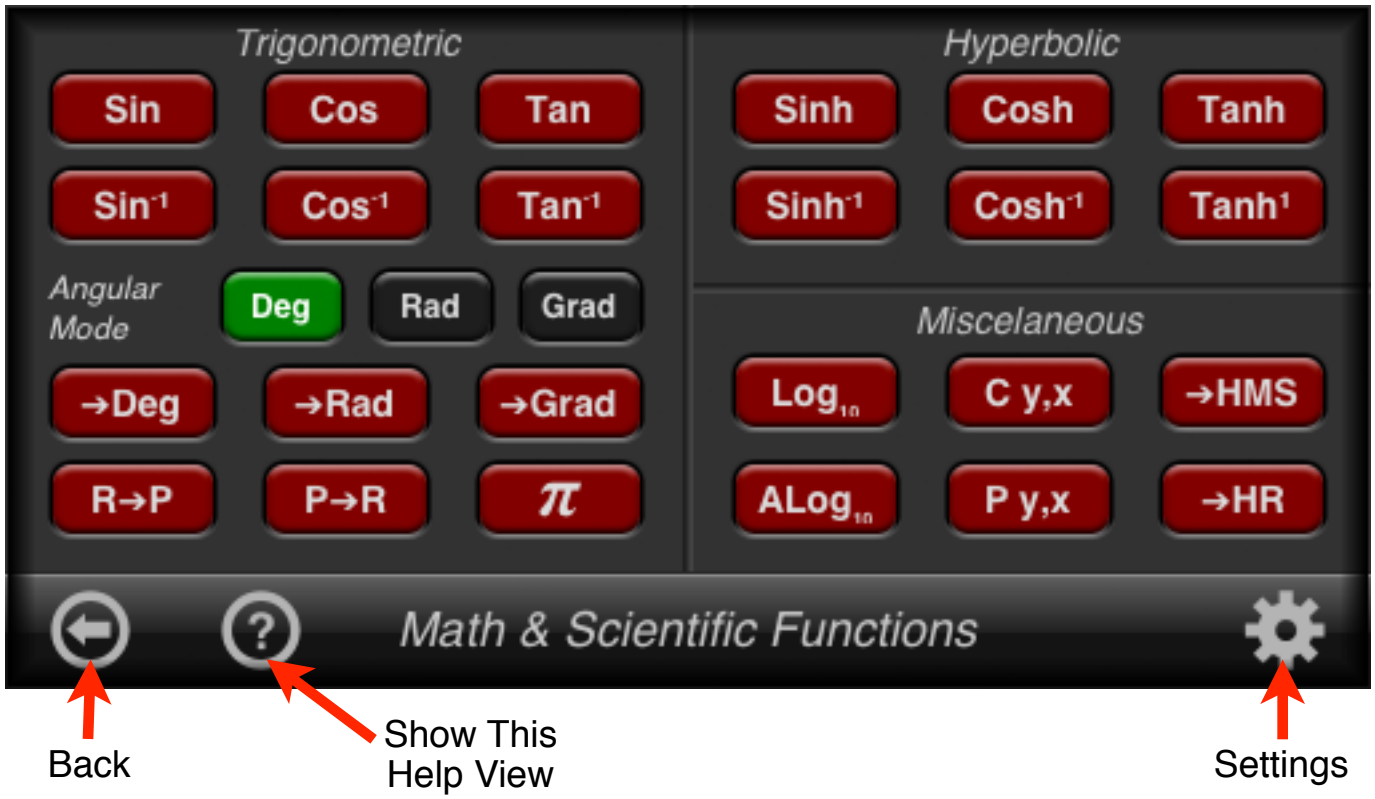
Scientific Functions Tool

This tool allows you to calculate many scientific functions not present in the the original HP-12C calculator.



Button	Angular Mode Setting
Deg	Sets the angular unit to degrees.
Rad	Sets the angular unit to radians.
Grad	Sets the angular unit to gradians.
NOTE : All the functions with an angular arguments will assume that the value of the argument is in the selected unit. All the functions with angular results will express that result in the selected unit.	

Button	Trigonometric Functions
Sin Cos Tan	Calculates the **Sine** , **Cosine** or **Tangent** of the displayed number (stack-X).
Sin^{-1} Cos^{-1} Tan^{-1}	Calculates the **Inverse** sine, cosine or tangent of the displayed number (stack-X).
→Deg →Rad →Grad	Converts the displayed number (stack-X) from the current angular unit to **degrees**, **radians** or **gradians** and change the angular mode to the target unit.
R→P	Converts from **Rectangular** to **Polar** coordinates. Takes the stack-X and stack-Y values as (X,Y) coordinates and calculates the polar form (magnitude **r**, angle **Ø**) putting "**r**" in the stack-X and "**Ø**" in the stack-Y registers.
P→R	Converts from **Polar** to **Rectangular** coordinates. Takes the stack-X and stack-Y values as (magnitude, angle) polar coordinates and calculates the rectangular form (**x**, **y**) putting "**x**" in the stack-X and "**y**" in the stack-Y registers.
π	Inputs the number **Pi** (3.1415…) into the calculator's stack.

Button	Hyperbolic Functions
Sinh Cosh Tanh	Calculates the **Hyperbolic** sine, cosine or tangent of the displayed number (stack-X).
$Sinh^{-1}$ $Cosh^{-1}$ $Tanh^{1}$	Calculates the **Inverse Hyperbolic** sine, cosine or tangent of the displayed number (stack-X).

Button	Miscellaneous Functions
Log_{10} $ALog_{10}$	Calculates the **Base-10** logarithm and anti-logarithm (10^x) of the displayed number (stack-X).
C y,x	Calculates the number of possible combinations of taking X-stack items at a time from a set of stack-Y items: $\mathbf{C_{y,x} = y! / [\ x! \cdot (\ y - x\ )!\ ]}$
P y,x	Calculates the number of possible arrangements of X-stack different taking Y-stack items at a time: $\mathbf{P_{y,x} = y! / (\ y - x\ )!}$
→HMS	Converts the displayed number (stack-X) from a decimal hour (or decimal degrees) format to an hours (or degrees), minutes, seconds and decimal seconds format (HH.MMSSdd).
→HR	Converts the displayed number (stack-X) from an hours (or degrees), minutes, seconds and decimal seconds format to a decimal hour (or decimal degrees) format.

Toolbar Button Action	
	Close the view and get back to the Options Selection Menu.
	Shows the Help View with the this topic selected.
	Shows the “General Settings” view to customize the RLM-12 Finance Center application.