

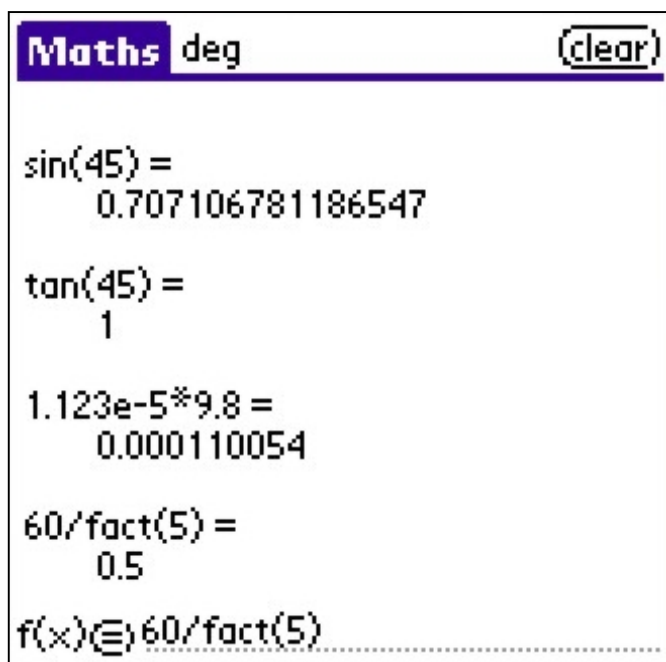
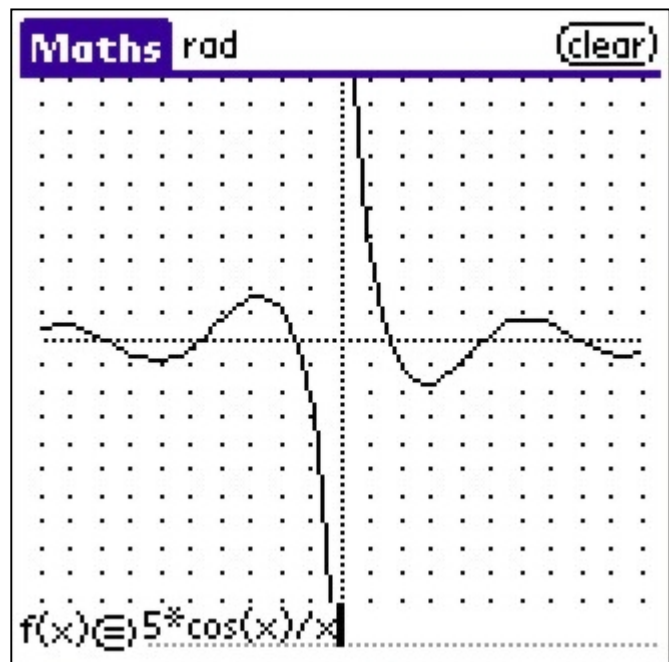
# Maths v 1.0.1

**Maths** is a Graphical Enhanced Calculator with up to 15 decimal places, trigonometric, hyperbolic, exponential functions and much more...

Just type an expression in the input line (up to 80 characters) and press the equal sign.




If your expression contains the x variable, the function is graphically displayed.



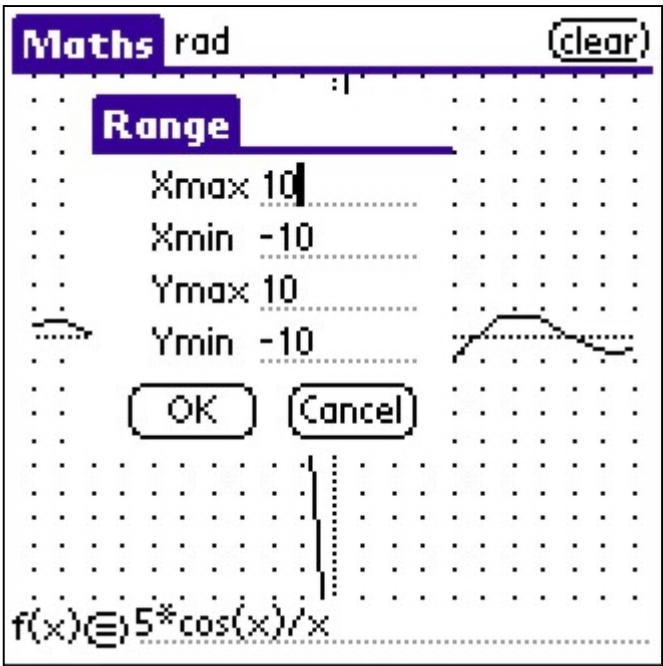
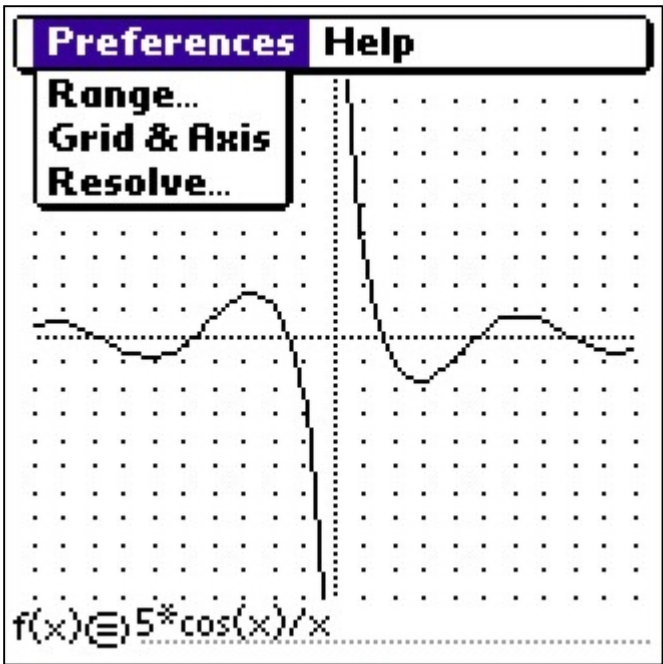
Otherwise, everything is considered to be constants and the result is computed. You can see the four last calculations.

# Menu Preferences

By taping the symbol  you open the menu Preferences.

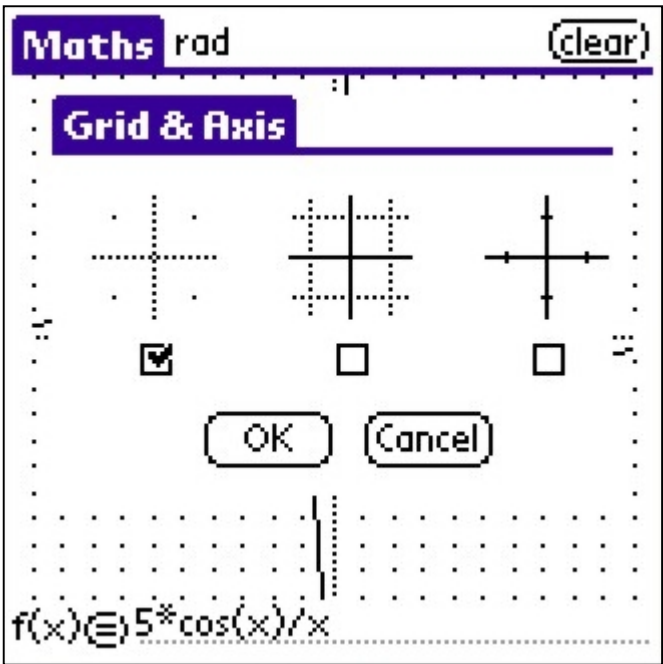
## Menu Range...

You can change the range by typing **Xmax**, **Xmin**, **Ymax**, and **Ymin** values in the menu **Range**.

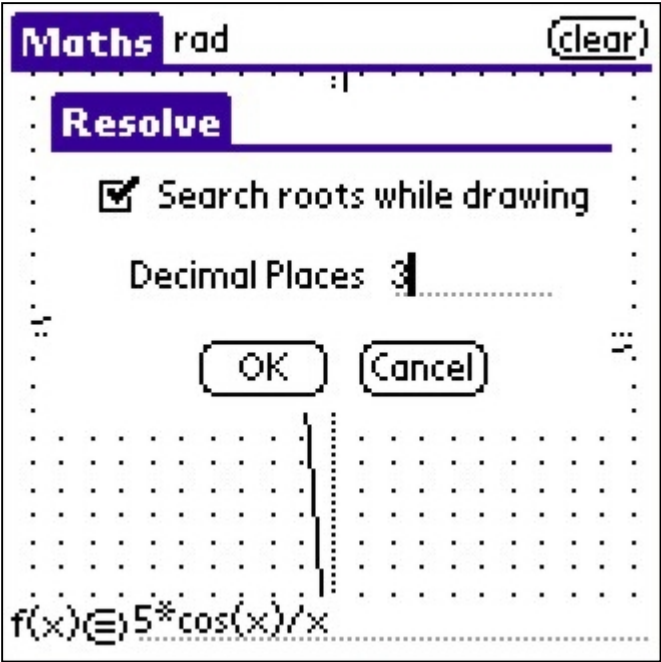


## Menu Grid & Axis

You can change the display of the GRID & AXIS by choosing between 3 options available in the menu **Grid & Axis**.

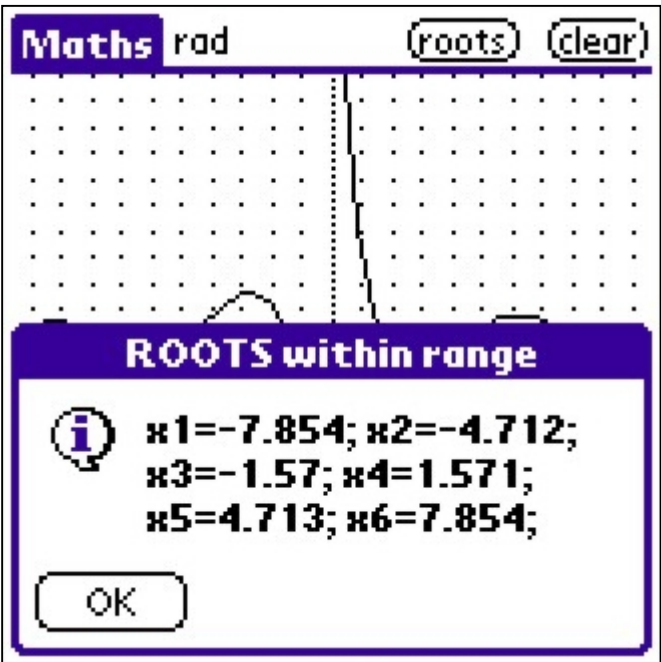
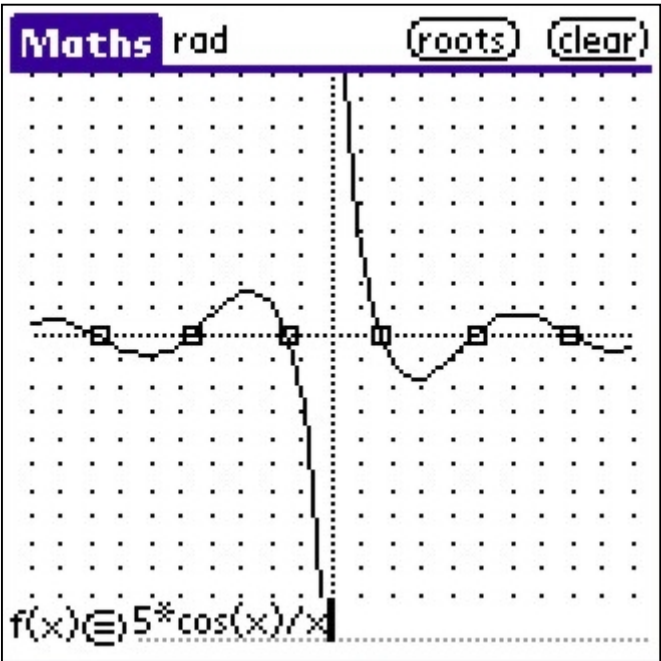


Menu Resolve...



You can **resolve** an equation by checking the box **Search roots while drawing**. The roots will be presented with the number of **decimal places** you choose (up to 8).

The roots will be marked with a square and a new button will appear.



If you press the new button **roots**, all the roots within range will be displayed (up to 10).















# Trigonometric Units

**Maths** can *now* work in radians, degrees and grades. When tapping over **rad** it will change to **deg** (degrees), **grad** (grades) and then back to **rad**. The unit chosen when the equal sign is pressed will be the one used in the calculations.

## Scientific Notation

You can *now* use **1.234e-5** instead of **0.00001234** .

## Here are the functions available so far:

Function	what to write	graffiti	example
Addition	+	 + 	
Subtraction	-	 + 	
Multiplication	*	 + 	
Division	/	 + 	
Power	^	 + 	$3^2 \rightarrow 3^2=9$
Left Parenthesis	(	 + 	
Right Parenthesis	)	 + 	
Pi	PI		
Square Root	SQRT( )		$\sqrt{9} \rightarrow \text{SQRT}(9)=3$
Exponential	EXP( )		$e^3 \rightarrow \text{EXP}(3)=20.0855...$
Natural Logarithm	LOG( )		
Base 10 Logarithm	LOG10( )		
Absolute Value	ABS( )		$\text{ABS}(3-5)=2$
Factorial	FACT( )		$3! \rightarrow \text{FACT}(3)=6$

Sine	SIN( )
Cosine	COS( )
Tangent	TAN( )
Arc Sine	ASIN( )
Arc Cosine	ACOS( )
Arc Tangent	ATAN( )
Hyperbolic Sine	SINH( )
Hyperbolic Cosine	COSH( )
Hyperbolic Tangent	TANH( )
Hyperbolic Arc Sine	
Hyperbolic Arc Cosine	
Hyperbolic Arc Tangent	

This program needs MathLib.prc to work. Please install both Maths.prc and MathLib.prc before trying to run the program.

**Technical Support & Suggestions: [atavares@engineer.com](mailto:atavares@engineer.com)**

**All your suggestions will be very welcomed.**