

# Documentation for Table 1.95

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The Table routine generates a table of values for a function or several functions. The stack syntax is:

3:	'EQUATION'	3:	SIN(X)
2:	%START	2:	0
1:	%STEP	1:	.1
-OR-			
3:	{ 'EQ1' 'EQ2' ... }	3:	{ COS(X) SIN(X) TAN(X) }
2:	%START	2:	0
1:	%STEP	1:	.1

Pressing the TABLE softmenu or typing the command will generate a 8-line function table.

**UP/DOWN directional arrows** to scroll down and up pagewise by 8 values.

**LEFT/RIGHT directional arrows** to move between functions.

**ENTER** will push the  $(x, f(x))$  for all currently displayed values in a list to the stack when you exit the Table. They will be tagged with the corresponding function.

**1, 2, ... 8 number keys** will push the first, second ... to eighth  $(x, (f(x)))$  value to the stack

**SPC** brings up a prompt for a X value to jump to.

**+/-** brings up a prompt for a new STEP increment.

**CST** (I-key) toggles between the real and complex part of the y-value.

**MTH** (RADiant key) toggles between RADian and DEGree mode.

Note that all values are calculated with full precision always, but due to the relative small size of the screen only 10 digits are shown for the X-value, while the F(X)-value will be shown to the full precision.

Imaginary number inputs are accepted. When there's a mark \* besides the y-value there's a complex part of that value.

You also can use algebraics to specify the STEP width or the JumpTo position. For example ' $\pi/3$ ' would be a possible input!

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\*Table is written and maintained by Aaron Wallace: [awallace@utdallas.edu](mailto:awallace@utdallas.edu) Thanks to Peter Karp for his help with testing this program.