



FX-9750/CFX-9850 Series

This is an assortment of screen captures that show some of the capabilities of the FX-9750/CFX-9850 graphing calculator. There are many more functions applicable for all grade levels. This is just a sampling of each of the menus.

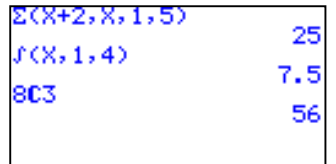
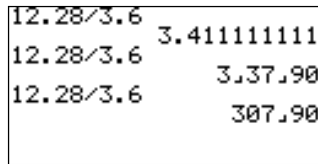
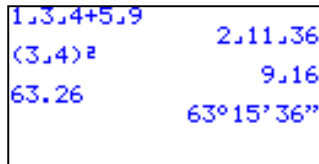
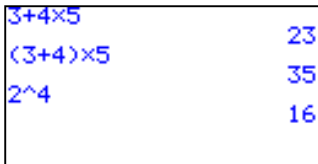
Turn on the calculator [AC^{on}] and you will notice the Menu Icons. These can always be found by pressing the gray [MENU] key. To move from icon to icon, use the 4-direction cursor pad or choose the number or letter in the bottom right corner.

Here are each of the Menu Icons with a short description of each Menu

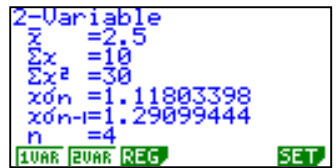
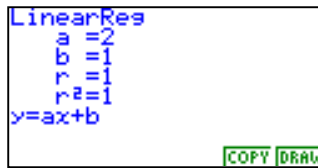
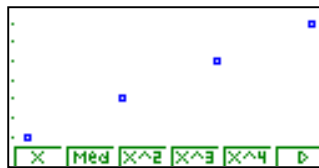
Icon	Menu Name	Description
	RUN	Use this mode for arithmetic calculations and function calculations, and for calculations involving binary, octal, decimal, and hexadecimal functions.
	STATistics	Use this mode to perform single-variable and paired-variable statistical calculations, to perform tests, to analyze data and to draw statistical graphs.
	MATrix	Use this mode for storing and editing Matrices.
	LIST	Use this mode for storing and editing numeric data.
	GRAPH	Use this mode to store graph functions and to draw graphs using the functions.
	DYNAmic graph	Use this mode to store functions and to draw Multiple versions of a graph by changing the values assigned to the values in a function.
	TABLE	Use this mode to store functions, to generate a numeric table of different solutions as the values assigned to variables in a function change, and to draw graphs.
	RECURsion	Use this mode to store recursion formulas, to generate a numeric table of different solutions as the values assigned to variables in a function change, and to draw graphs.
	CONICS	Use this mode for graphing and analyzing Conic sections including the Parabola, Ellipse, Hyperbola, and Circle.
	EQUAtion	Use this mode to solver linear equations with up to 6 unknowns and solve quadratic and cubic equations.
	PRoGraM	Use this mode to create, edit and store programs as well as run them.
	Time Value of Money	Use this mode to perform financial calculations and to draw cash flow and other types of graphs.
	LINK	Use this mode to transmit and receive data from another calculator or a personal computer.
	CONTRast (9850) (9750)	Use this mode to adjust the color contrast of the display. Note that color is only available in the CFX 9850 series.
	MEMory	Use this mode to check how much memory is used and remaining, to delete data from memory, and to initialize (reset) the calculator.



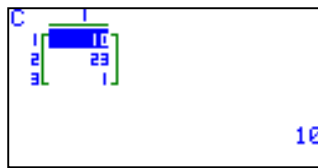
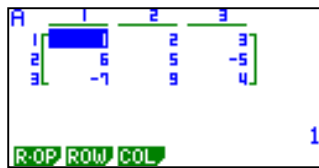
Using the **RUN** menu, you can do everything a scientific calculator can do...and then some...



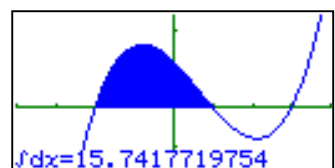
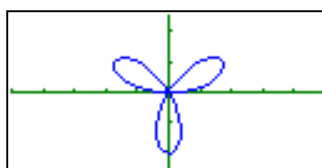
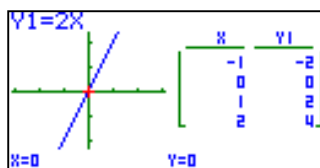
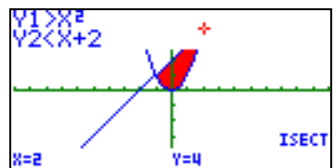
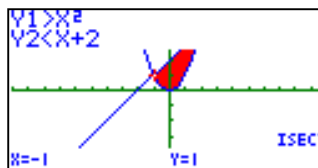
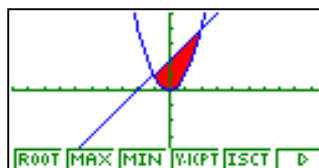
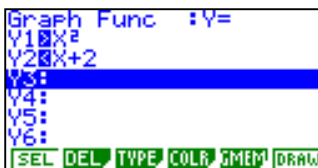
The **STAT** menu allows you to enter in data or download it from a data collector. Now you can interpret and analyze with 10 types of regressions and 1 or 2 variable statistics. You can also draw statistical graphs.

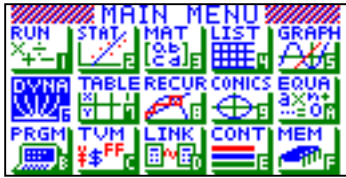


The **MATRIX** menu is for entering, storing and editing matrices. Matrix operations include addition, subtraction, multiplication, scalar product, determinant, transposition, inversion, squaring, and row operations.

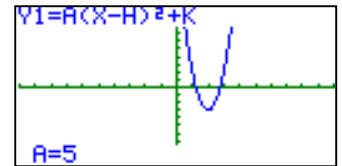
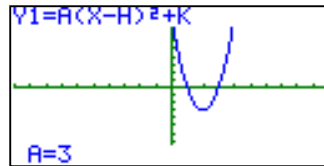
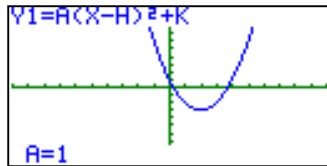
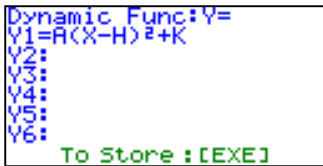


You can draw vertical lines and polar, parametric, or regular functions in the **GRAPH** menu. Draw inequalities with ease, find intersection points, intercepts, roots, min and max.





Help students find the meaning behind functions with the **DYNAMIC GRAPHER**. Choose a parameter of a function and investigate how it affects the function. Have students problem-solve to find what is happening, and why.



Above is a parabola with dynamic variable “A” with a range of 1 to 5, changing by two. This parabola is animated on the calculator as it goes through all the values of A.

You can enter any equation you want or use the built in functions. To the right we used one of the built-in functions as an example.

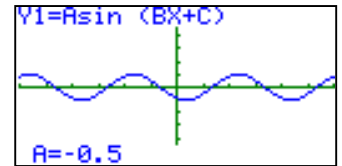
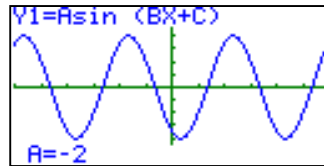
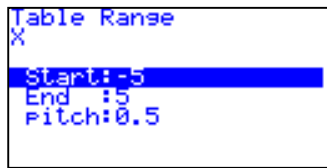


TABLE looks very much like GRAPH but is used to generate a table of values. You can specify a range of values for X and find all the Y values. With two functions you can look for patterns or intersection points.

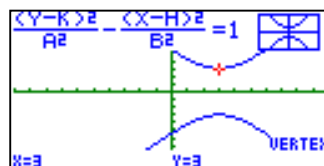
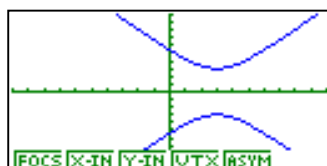
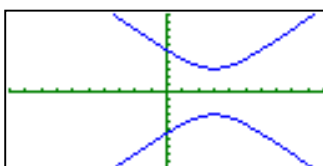
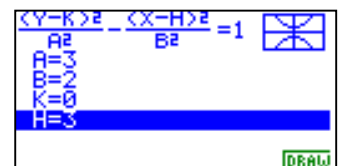
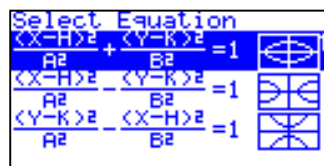
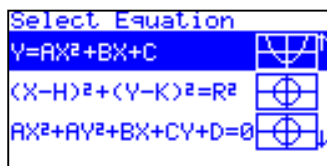
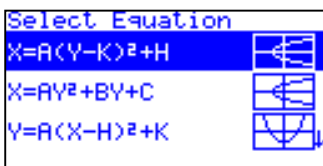


X	Y1
-5	25
-4.5	18.25
-4	14
-3.5	10.25

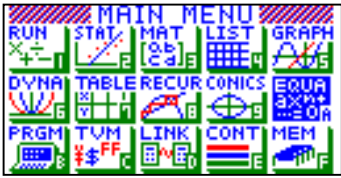
X	Y1	Y2
0	-2	0
0.5	-1.75	-0.25
1	-1	-1
1.5	-0.25	-2.25



CONICS are now a problem solving activity. Find the conic you want, enter the parameter, then draw it. Then find out all the critical points and information on that conic using the Graph-Solver. Discover how the critical points are related to the function.



Each Conic has different items in the Graph-Solver that correspond to that particular conic. A Hyperbola is demonstrated here with 5 items in the Graph-Solver. A Circle would only have Center and Radius.



The **EQUATION** menu will solve up to 6 simultaneous equations with 6 unknowns, up to a 3rd degree polynomial, and can solve multi-variable equations for one variable, given values for all the others.

F1 →

Equation

Select Type

F1: Simultaneous

F2: Polynomial

F3: Solver

SIML POLY SOLV

Simultaneous

No Data In Memory

Number Of Unknowns?

2 3 4 5 6

$$ax+by=C_n$$

1	1	2	3
2	-2	4	8

SOLV DEL CLR

$$ax+by=C_n$$

X	-0.5
Y	1.75

REPT

-1.2

F2 →

Polynomial

No Data In Memory

Degree?

2 3

$$ax^3+bx^2+cx+d=0$$

1	1	2	3	4
2	1	2	3	4

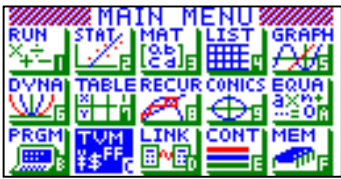
SOLV DEL CLR

$$ax^3+bx^2+cx+d=0$$

1	1.73205
2	-1.73205
3	-2

REPT

1.732050808i



TIME VALUE of MONEY is for financial calculations of many types. These include Simple and Compound Interest, Investment Appraisal (Cash Flow), Amortization, Interest Rate Conversion, Cost-Selling Price- Margin, Day/Date Calculations

Financial(1/2)

F1: Simple Interest

F2: Compound Interest

F3: Cash Flow

F4: Amortization

F5: Conversion

F6: Next Page

SIMPL CMPD CASH AMT CHUT

Financial(2/2)

F1: Cost/Sel/Margin

F2: Days Calculation

F6: Next Page

COST DAYS

Compound Interest:End

n = 48

i% = 4.9

PV = -12000

PMT = 0

FV = 0

P/Y = 12

n i% PV PMT FV AMT

Compound Interest:End

PMT = 275.8082649

REPT AMT GRAPH

LINK is used to Transmit or Receive data such as programs, lists, matrices, or screen shots of the calculator. Communication can be to another calculator, a computer, or Casio label maker.

CONTRAST easily allows the user to adjust the contrast of each of the three colors, individually or all together. You may then press F1 to change a color back to it's Initial setting, while F2 changes all of them back to their initial settings. (CFX 9850 series)

MEMORY allows the user to inspect memory allocation as well as clear memory. Certain parts of memory can be deleted in Memory Usage and all memories can be deleted by selecting Reset

Communication

Image Set:Color

F1: Transmit

F2: Receive

F6: Image Set Mode

TRAN RECV IMGE

MAIN MENU

COLOR

ORANGE

BLUE

GREEN

CONTRAST

INIT IN-A

Memory

Memory Usage

Reset

To Select: [↑][↓]

To Set : [EXE]