$$
\begin{aligned}
& \frac{+3 C)+6 B}{10}=\frac{4 M+6 B}{10} \rightarrow Z \in[M B] \\
& \left(x x^{-}\right)^{2}=\frac{1 A x+1 g^{2}}{10} \Rightarrow 2^{+} \in[P A] \\
& Z=\frac{p A+q D+c}{p+q+1}=\frac{p A+(q B+1+\bar{c})}{p+q+1} \\
& Z_{\in}[A M] \Rightarrow T_{\epsilon} \Gamma_{1} .
\end{aligned}
$$

(std) $\frac{?}{}$
QUICK
Reference Guide



Selecting the RUN $\xlongequal{\text { 些㘳 }}$ icon will allow you to perform general computations and arithmetic.

The function keys allow you to access the tab (soft key) menus that will come up at the bottom of the screen. When an appears above the Fey, selecting F6 will offer more onscreen choices.

The IIENO key displays every mode the calculator has. To select a mode, you may © to the desired icon and press Ext or press the number or letter in the lower right hand corner of the icon.

The EXXTT key operates like the back arrow on a web browser; it will take you back one screen each time you select it. The EXIT key will not take you to the icon menu.

The FOD key is a toggle key that will change answers or entered numbers back and forth from decimal to fraction form.

The ACOON key will power the unit on. To turn the unit off, press the yellow shift key, then achoo key.

The abe y is used to obtain a fraction bar. To obtain a mixed number, press ar after inputting the whole number.

The EXE key executes operations. When data is entered, the EXE button must be pressed to store the data.

CASIO.

## The following explains the meaning of each icon on the fx-9750GII icon menu

| ICON | Menu Name | Description |
| :---: | :---: | :---: |
| $\stackrel{\text { EUH }}{+1+1}$ | RUN | This icon menu is used for general computations, including absolute value, logs of any base, summation, derivatives, and integrals. |
|  | STATISTICS | This icon menu is used to perform single-variable (standard deviation) and paired variable (regression) statistical calculations, to perform tests, to analyze data and to draw statistical graphs. |
| $\begin{aligned} & \text { Geqf } \\ & \mathrm{A}_{2} \end{aligned}$ | GRAPH | This icon menu is used to quickly draw, store and calculate information of functions. Can graph polar, parametric, $x=$, and inequality graphs on the same screen. |
| $\stackrel{\text { QYH }}{\mathrm{SH}_{4}}$ | DYNAMIC GRAPH | This icon menu is used to draw multiple versions of a graph by changing the values in a function. |
|  | TABLE | This icon menu is used to draw multiple versions of a graph by changing certain values in the function. |
| $\begin{aligned} & \text { RECUF } \\ & \text { PN } \end{aligned}$ | RECURSION | This icon menu is used to store recursion formulas, to generate a numeric table of different solutions as the values assigned to the variables in a function change, and to draw graphs. |
|  | CONICS | This icon menu is used to graph parabolas, circles, ellipses, and hyperbolas. You can input a rectangular or polar coordinate function or a parametric function for graphing. |
|  | EQUATION | This icon menu is used to solve linear equations with two through six unknowns, and high-order equations from 2nd to 6th degree. |
|  | PROGRAM | This icon menu is used to store programs in the program area and to run programs. |
|  | time value OF MONEY | This icon menu is used to preform financial calculations and to create cash flow and other types of graphs. |
|  | DATA <br> ANALYZER LINK | This icon menu is use to control the optionally available EA-200 Data Analyzer. For information about this icon menu, download the E-CON2 manual from http://edu.casio.com. |
| LIHK | LINK | This icon menu is used to transfer memory contents or back-up data to another unit or PC. |
|  | MEMORY | This icon menu is used to manage data stored in memory. |
| SYSEM-1 | SYSTEM | This icon menu is used to initialize memory, adjust contrast, reset memory, and to manage other system settings. |

This section is an overview of the RUN MAT Icon．To select an icon from the icon menu system，use the $\rightarrow$ to highlight the desired icon，then press 狪 or press the number／letter in the lower right corner of the icon．For the Run menu，press 1 to display the initial RUN screen．

1．When performing general computations，select $a$ ab to enter fractions and mixed numbers． To solve the problem $\frac{5}{8}+2 \frac{1}{3}$ input the following：



2．To change the answer $\frac{71}{24}$ to a mixed number，press SHIFT $F O D\left(a \frac{b}{c}+\frac{d}{c}\right)$ ．

| $5,8+2\lrcorner 1,3$ | $2,23.24$ |
| :--- | :--- |
|  |  |
| Miv |  |

3．To change the answer to a decimal approximation，press $\mathbb{F - D}$ ．$F-D$ is a toggle key that will switch entered data or answers from fraction to decimal form or decimal to fraction form．

| 5 ¢8＋2」1」3 |  |
| :---: | :---: |
|  | 2.958353353 |
| HiT |  |

4．To change the displayed number of decimal places，enter the SET UP menu SHIFT MEND． $\odot$ to Display，select F1（Fix）and enter the desired amount of decimal places followed by EXE．For this example， 3 decimal places are used．

Note：Every icon＇s Set Up menu is accessed in the same way．



|  |  |
| :---: | :---: |
|  |  |
| ［ Mitic |  |

## GRAPH

Various icon (Run, Table, Dynamic, Recursion \& Conics) will allow you to graph or analyze the graphs of given information. This section is an overview of the GRAPH Icon and will highlight some basic features of this mode.

The initial screen allows immediate input of functions set equal to zero. You may begin inputting data into Y1: and press EXE to store; to draw your function(s), select F6.


You can change the type of graph ( $r$ = polar coordinates, parametric functions, $x=$, and $y$-inequalities) by selecting the corresponding TYPE button and then press the to begin inputting information.


When the TYPE of graph is changed, it only effects the current line and entries below it. Functions already stored are unchanged.

1. To draw the graph of the function $y=2 x^{2-5 x-3}$ from the Icon Menu system, input the following:



To quickly change your window, you can utilize the Replay arrows. Specific changes can be made to the viewing window by selecting V-Win F3.

To analyze features of this graph (roots, maximum and minimums, y-intercepts, intersections, determine coordinates, and integrals) select F5 (G-Solve).



The section is an overview of the TABLE Icon．To select this icon，you may highlight it and press ExE or press 5 ．

The initial screen allows immediate input of functions that are set equal to 0 ．To change the type of expression to be entered，press F3（TYPE）and select F2（ $\mathrm{r}=$ ）for polar coordinates，F3（Parm） for parametric functions or F4（CONV）to convert a previously entered function to an inequality．


1．To see a table for the function $y=\frac{2}{3} x-4$ ，highlight $Y 1$ ：and input the following：
－ 2 a包 3 区，㫙T 4 EXE F6


2．The default setting for tables is：$X$ starts at 1 ，ends at 5 ，and increases by increments of 1 ． You change this by pressing EXIT or F1（FORM）to return to the initial screen and then select F5（SET）．


3．However，you can manually enter a number anywhere in the x－column of the table and press EXE to see the corresponding y－value（including fractions，decimals，even $\pi$ ）．You can insert and delete rows in this view by pressing F3（ROW）．This is a quick way to custom make tables．

4. From the table view screen, you can press F5 (G-CON) to see a linear graph or F6 (G-PLT) to see a plot graph for the function you entered.

5. To see a split screen of your table and graph, press SHIFT WENO to enter the SET UP menu for the TABLE icon. Scroll down to Dual Screen, select F1 (T + G), EXIT, then F6 (TABL).

If you manually entered values to the previous table that you still want displayed, you can re-enter them here, then press ExE to see the graph of that table.


This section is an overview of the STAT Icon; it will highlight just a few of the features for single-variable data and paired-variable data. To select this icon, you may highlight it and press Ex or press 2 .

The initial List Editor Screen allows input of statistical data and performs numerous statistical calculations. To input a list of single-variable data, highlight the first cell under List 1 and enter each number followed by 트․


1. For this example, input this set of data:

| List 1 | 1 | 0.5 | 1.2 | 4 | -1 | 1 | 3 | 5 | 6 | 3.4 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |

2. From this screen, you can display various statistical graphs depending on whether you have single or paired-variable data (scatter-plot, line, normal probability, histogram, median box, mean box, normal distribution, broken line, and regression: linear, quadratic, cubic, quartic, logarithmic, exponential, power, sinusoidal and logistic).

3. The initial default graph is a scatter-plot. To change the type of graph you would like to use, press F1 (GRPH), then F6 (SET), $\odot$ to Graph Type:, for this set of data, we will make a histogram, press F6, and then F1 for histogram.


STATISTICS
8. To see a scatter-plot of these data, you can go through and change GPH 1 back, using the process above, or select F2 (GPH 2) from the List Editor screen whose default is also a scatter-plot.

9. From the scatter-plot screen, pressing (F1] will show all the calculations that can be obtained from this set of data.

10. To calculate a linear regression for these data, select F2 from the first set of options and then press [F2 for the preferred form. For this example, we will use $y=a x+b$.

11. From this screen, select F5 (COPY) to copy and then paste the regression equation into the initial Graph screen or select F6 (DRAW) to show the linear regression.


## EQUATION

Press EXIT to return to the previous screen, press F1 (REPT) to edit this problem or continue solving simultaneous equations with three unknowns. To edit just one of the numbers in the system, arrow to the number to be edited and press F4 (EDIT) or highlight the number to be edited and just enter the new number, then press EXE.

Press EXIT until the Equation Editor screen is displayed. The second mode is F2 Polynomial and can be used to solve high-order equations in standard form that are, from the $2^{\text {nd }}$ to the $6^{\text {th }}$ degree.
2. To solve the equation $x^{3}-2 x^{2}-x+2=0$, input the following:

- F2 F2 1 EXE $(-)$ EXE $(-)$ EXE 2 EXE F1


3. To change the equation to $x^{3}+2 x^{2}+3 x+2=0$, select F1 (REPT) and change the b-value to 2 , the c-value to 3 and press F1 (SOLV).

4. The default setting is for real numbers; to change the display to a+bi form, press SHIFT MENO for the Polynomial SET UP menu, select F2 (a+bi), EXIT, then F1 (SOLV).


Solver is the third function F3] and allows you to determine the value of any variable in a formula or equation. You can input any formula exactly as it appears using a ALPHA for any variables. In this example, we will solve a linear equation and a formula.

## CONICS

This section is an overview of the CONICS Icon. To select this icon, you may highlight it and press ExE or press 7.

The initial CONICS screen allows you to choose from various conic functions, including rectangular, polar or parametric form. You may use the $\odot$ to select the equation of the function in accordance with the type of graph you want to draw. Once you have chosen the conic function you would like to graph, enter the coefficients of the function and then press DRAW F6.


1. To view the graph of the conic: $y=2 x^{2}-5 x-3$, select the form from the Conics formula menu.


In the Conics modes, when you press F5 (G-Solv), although you are still graphing a parabola like in the graphing section, notice how the vocabulary and options have changed to be conic specific.

2. For example, you can now examine the line of symmetry for this parabola and the equation of that line will be displayed.


You can continue to analyze different areas of this graph and the line of symmetry will still be displayed.

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