

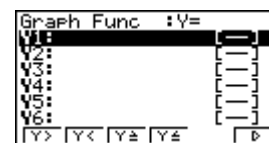
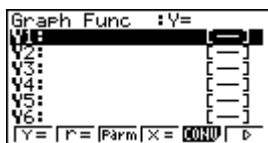
GRAPH

Various icons (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: pressing **EXE** to store; to draw your function(s), select **F6**.



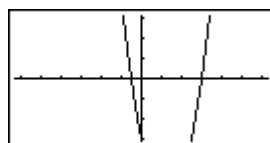
You can change the type of graph (r = polar coordinates, parametric functions, x =, and inequalities) by selecting the corresponding TYPE button and then press **▶** to begin inputting.



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

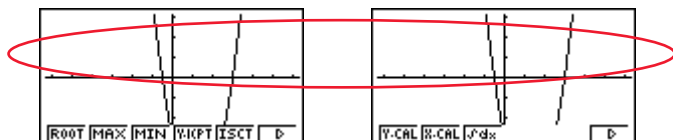
1. To draw the graph of the function $y=2x^2-5x-3$ from the Icon Menu system, input the following:

- **[5] [2] [X,θ,T] [x²] [-] [5] [X,θ,T] [-] [3] [EXE]**



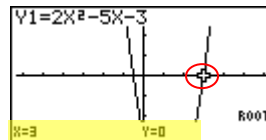
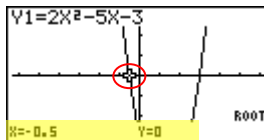
To quickly change your window, you can utilize the Replay arrows. Specific changes can be made to the viewing window by selecting V-Win **F3**.

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



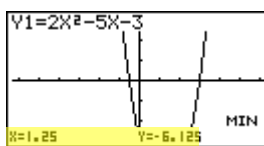
GRAPH

2. **F1** (Root):



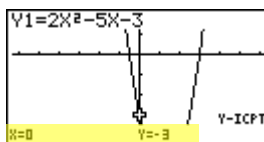
Note: The left-most root will always display first. To display the next root, simply press **▶**.

3. **F3** (Minimum):

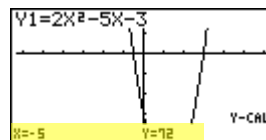
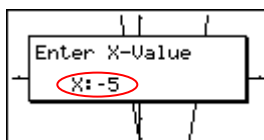


Note: As long as the x-value of your vertex is in the viewable domain; you do not need to see the vertex to calculate the minimum value. However, you can change the viewing window by selecting **F3** (V-Window) in the graph window.

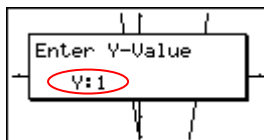
4. **F4** (y-intercept):



5. **F1** (y-calculation): What is the value of y when x is -5?



6. **F2** (x-calculation): What is the value(s) of x when y is 1?



7. **F3** (integral): Determine the integral value from (0,3) for the function $Y1=2x^2 - 5x - 3$.

