



# Calculator Appendix H

## (Scatter Plots)

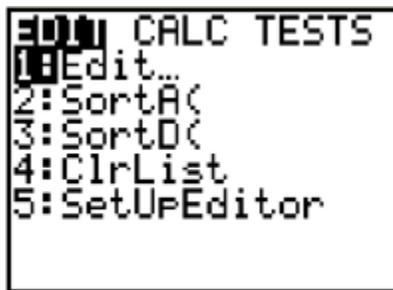


Consider the data in this table. These points can be displayed as a “scatter-plot” with the steps described below.

x	y
-9	-2.1
-5.2	-1
-2	2.04
2.3	5
6	6.11
8.9	8.2



The first step is to press the **STAT** button which yields the following display.



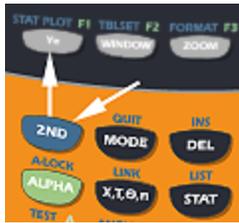
At this point either press **ENTER** or **1** indicating we wish to choose menu item 1 (editing/entering the list of x and y values).

Enter the x and y values choosing each position with the **Left/Right & UP/DOWN ARROWS**. Enter the x values under list **L1** and the y values under list **L2**.

If **L1** and **L2** are not visible use the **LEFT/RIGHT ARROWS** so they display. If old lists are present use the **UP ARROW** to position the cursor on top of, for example **L1**, press **CLEAR**, and press **ENTER**.

L1	L2	L3	2
-9	-2.1	-----	
-5.2	-1		
-2	2.04		
2.3	5		
6	6.11		
8.9	8.2		
-----	-----		
L2(1) = -2.1			

The next step will be to press **2<sup>nd</sup> | STAT PLOT | 1 | On** so as to enable a scatter-plot to be displayed. This sequence is shown below. In the picture on the far right, use the **LEFT/RIGHT ARROWS** to choose between **On** and **Off** (choose **On**).



```

STAT PLOTS
1:Plot1...On
  [L1] L2
2:Plot2...Off
  [L1] L2
3:Plot3...Off
  [L1] L2
4↓PlotsOff
  
```

```

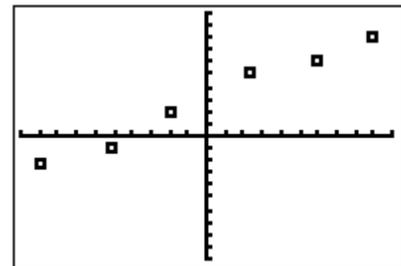
Plot1 Plot2 Plot3
On Off
Type: [Scatter] [Line] [Bar]
      [Histogram]
Xlist:L1
Ylist:L2
Mark: [Square] + .
  
```

Finally, display the scatter plot by pressing the **GRAPH** button.

L1	L2	L3	Z
-9	-2.1	-----	
-5.2	-1		
-2	2.04		
2.3	5		
6	6.11		
8.9	8.2		
-----			
L2(1) = -2.1			

```

WINDOW
Xmin=-10
Xmax=10
Xscl=1
Ymin=-10
Ymax=10
Yscl=1
Xres=1
  
```



See **Appendix I** for how to produce the equation of a line that “best - fits” this scatter-plot.