

Calculator Basics II

- Using Lists to display functions defined numerically
- Producing scatter plots.

Notation: All words in **BOLD** are calculator function keys.

Using **Lists** to produce tabulated values of the dependent variable x and the independent variable y in the relation $y=f(x)$.

This can be equally done using the **TABLE** function.

Find a problem from text in (table form) or make up your own.

Plot the x and y values given in the given table.

x	$f(x)$
1	3

Lists

Using Lists to Plot /Graph Functions defined numerically

- Enter the dependent variable values in a list.

List Edit

Position cursor at $xStat(1)$ then type 1 **ENTER**, **ENTER** (Enter The domain of F)

This will establish the list $xStat = \{ \quad \}$

- Repeat 1 to enter the $y=f(x)$ values in $yStat$.
- Produce a Plot of the ordered pairs (x,y) . This is the graph of the function $y=f(x)$

$xSta$	$yStat$	$fStat$

Go to **STAT PLOT PLOT1**

Set up PLOT1

Using the UP and DOWN cursor keys

Choose **ON** **ENTER**
 Type **SCAT**
 XLIST Name= **$xStat$**
 XLIST Name= **$yStat$**
 Mark=+

To produce the plot

GRAPH ZOOM MOORE ZDATA

