

## TI 83/84: Using the **TABLE** on your calculator -- WAY useful!

- Enter an equation on your **Y=** screen.

```

Plot1 Plot2 Plot3
\Y1=2(X-1)²+4
\Y2=
\Y3=
\Y4=
\Y5=
\Y6=
\Y7=
    
```

- Press **2nd**, then **TBLSET**. (above the **WINDOW** key on the top row)
- Set up the table start value and the table jump values, highlight **Auto** on both the independent and the dependent variables:

TableStart: what x value do you want to start with?

TableJump: how big a step do you want from each x value to the next?

```

TABLE SETUP
TblStart=-3
ΔTbl=1
Indpt: Auto Ask
Depnd: Auto Ask
    
```

Independent (explanatory) variable: do you want the x-values filled in automatically, or do you want to type them in yourself?

Dependent (response) variable: Always leave this on "automatic."

- Press, **2nd**, then **TABLE**. (above the **GRAPH** key on the top row)

X	Y1	
-3	36	
-2	22	
-1	12	
0	6	
1	4	
2	6	
3	12	

X = -3

*Cool!* There's the whole t-table.

- Use your up and down arrow keys to look at smaller and larger x values.
- Use the numbers from the table to make your hand-drawn exact graph.
- If you want to type in your own x-values, set the independent variable to **Ask** instead of **Auto**.

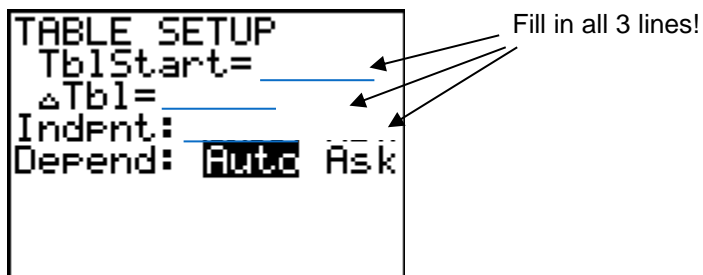
### Practice: Entering Tables in your Calculator

Set up the following tables in your calculator (think about the *TableStart* and the *TableJump* for each one), then fill in the y values for  $y = 2(x-1)^2 + 4$  (the equation from the previous page) below.

(1)

X	Y <sub>1</sub>
0	
10	
20	
30	
40	
50	
60	

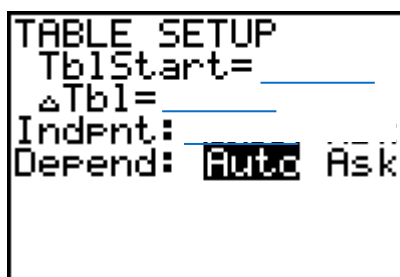
Fill in how you needed to set up your calculator:



(2)

X	Y <sub>1</sub>
-2	
-1.9	
-1.8	
-1.7	
-1.6	
-1.5	
-1.4	

Fill in how you needed to set up your calculator (all 3 lines):



(3)

X	Y <sub>1</sub>
4	
7	
10	
13	
16	
19	
22	

Fill in how you needed to set up your calculator (all 3 lines):

```
TABLE SETUP
TblStart= _____
ΔTbl= _____
Indent: _____
Depend: Auto Ask
```

(4)

X	Y <sub>1</sub>
1.01	
23	
4	
3.14	
49	
-6	
5	

```
TABLE SETUP
TblStart=4
ΔTbl=3
Indent: Auto ASK
Depend: Auto Ask
```



(The important part on this one is to have it **ASK** for the independent variable – then just type the numbers into the x column. The table start and the table jump don't matter.)