

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?

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."

TABLE SETUP

→TblStart=-3

ΔTbl=1

Indpnt: **Auto** Ask

Depend: **Auto** Ask

- 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 ₁
0	6
10	166
20	726
30	1686
40	3046
50	4806
60	6966

Fill in how you needed to set up your calculator:

TABLE SETUP
TblStart= 0
ΔTbl= 10
Indent: Auto
Depend: Auto Ask

Fill in all 3 lines!

(2)

X	Y ₁
-2	22
-1.9	20.82
-1.8	19.68
-1.7	18.58
-1.6	17.52
-1.5	16.5
-1.4	15.52

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

TABLE SETUP
TblStart= -2
ΔTbl= 0.1
Indent: Auto
Depend: Auto Ask

(3)

X	Y ₁
4	22
7	76
10	166
13	292
16	454
19	652
22	886

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

```

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

```

(4)

X	Y ₁
1.01	4.0002
23	972
4	22
3.14	13.159
49	4612
-6	102
5	36

```

TABLE SETUP
TblStart=4
ΔTbl=3
Indent: Auto Auto
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.)