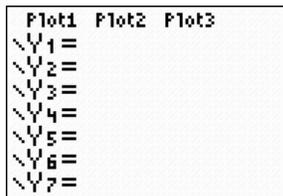


Creating a Table

Instructions for the TI-84 Plus

Create a table that will display the points on the graph of the equation $4x^2 + 4y = 20$ using $x = -2, -1, 0, 1, \text{ and } 2$. Before you can enter the equation in the function editor you must solve the equation for y . Once you have solve the equation for y , the result will be $y = -2x^2 + 5$. Now enter the equation into the function editor. Press $\boxed{Y=}$. You want the function editor to be clear of any equations that might be stored there. To clear out the equations you must use the $\boxed{\uparrow}$ or $\boxed{\downarrow}$ key to move the cursor to the equation you want to clear, then press $\boxed{\text{CLEAR}}$. Once you have cleared out any existing equations your screen should look like the screen in Fig.1.

Fig.1



Enter the equation by pressing $\boxed{Y=}$. The cursor should be blinking on $\backslash Y_1$.

Press $\boxed{(-)}$ $\boxed{2}$ $\boxed{X,T,\theta,n}$ $\boxed{x^2}$ $\boxed{+}$ $\boxed{5}$ $\boxed{\text{ENTER}}$. The screen should look like the screen in Fig.2.

Fig.2

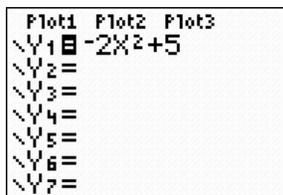


Fig.3



To create a table for the equation that you have entered into the function editor, press $\boxed{2nd}$ $\boxed{\text{WINDOW}}$. This takes you to the TABLE SETUP menu. Your screen should look similar to the screen shown in Fig.3. To change the information on your calculator simply press $\boxed{(-)}$ $\boxed{2}$ $\boxed{\text{ENTER}}$ $\boxed{1}$ $\boxed{\text{ENTER}}$. The cursor should now be located to the right of **Indpnt:** blinking on the **Auto**, press $\boxed{\text{ENTER}}$, then press $\boxed{\text{ENTER}}$ again to set the **Depend:** to **Auto**. Press $\boxed{2nd}$ $\boxed{\text{GRAPH}}$. Your screen should look like the screen shown in Fig.4.

Fig.4

X	Y ₁	
-2	3	
-1	3	
0	3	
1	3	
2	3	
3	3	
4	3	

X = -2

To change the table to **ASK** mode, press **2nd** **WINDOW** to display the window shown

Setting the Table to ASK mode

We want to tell the calculator to **ASK** us which values we want for the independent variable (x) then automatically calculate the dependent variable ($f(x)$ or y) that corresponds to the x -value.

To access the Table Setup menu, press **2nd** then **WINDOW**. Use the arrow keys to position your cursor on the word **ASK** beside Independent (Indpnt) then press **ENTER**. Use the arrow keys to position your cursor on the

word **AUTO** beside Dependent (Depend) then press **ENTER**. The values for Table Start (TblStart) and Table Increment (Δ Tbl) are not important in **ASK** mode, so it does not matter which numbers are there. The rest of your screen should look like figure 5.

Fig. 5

TABLE SETUP
TblStart=0
Δ Tbl=1
Indpnt: Auto ASK
Depend: AUTO Ask