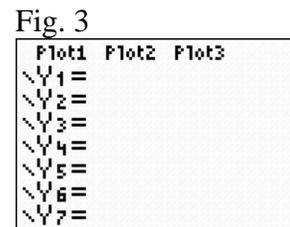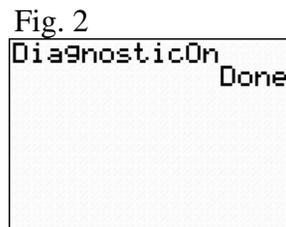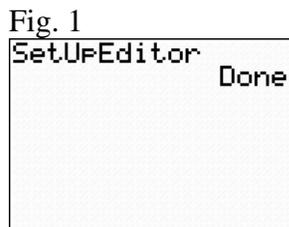# Preparing the Calculator for
Linear Regression
Instructions for the TI-84 Plus

Before beginning the regression type problems, you will need to prepare your calculator by using the following steps.

Step 1: Press `STAT` `5` to select **5: SetUpEditor**, press `ENTER`. This removes lists from the stat list editor columns **1** through **20**, and then stores lists **L1** through **L6** This will result in the screen shown in figure 1.
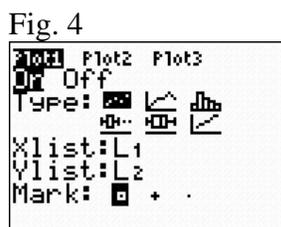
Fig. 1

```
SetUpEditor
            Done
```

Fig. 2

```
DiagnosticOn
            Done
```

Fig. 3

```
 Plot1 Plot2 Plot3
\Y1=
\Y2=
\Y3=
\Y4=
\Y5=
\Y6=
\Y7=
```

Step 2: Next you will need to turn the **DIAGNOSTIC ON**. Press `2nd` `0` for catalog. Use `∨` to find **DIAGNOSTIC ON** (pressing `x⁻¹` to access the "D" in alpha mode will speed up this process). Press `ENTER` to select **DIAGNOSTIC ON**. Press `ENTER` again to activate the **DIAGNOSTIC ON**. Your screen will look like the screen in figure 2.

Step 3: Press `Y=` to display the equation editor. If necessary, clear out any equations that may be stored here. You want your calculator to look like the screen in figure 3.

Step 4: Press `2nd` `Y=` for **STAT PLOT**. To work with Plot 1, press `ENTER`. Turn **Plot1** on by moving the cursor to **ON** and pressing `ENTER`. Press `∨` to select the **Type** of plotting that you need. Scatter plot is the first choice, so press `ENTER`. Next, press `∨` to the **Xlist**. The **Xlist** should have **L1** in it. If it does not, press `2nd` `1` to get **L1**. Press `ENTER` to move the cursor to **Ylist**. The **Ylist** should have **L2** in it. If it does not, press `2nd` `2` to get **L2**. Then press `ENTER` to move the cursor to **Mark**. Press `ENTER` to select the first mark. Your screen should look like figure 4.

Fig. 4

```
Plot1 Plot2 Plot3
On Off
Type: ▦ ⊾ ⊪
      ⊶ ⊞ ⊿
Xlist:L1
Ylist:L2
Mark: ■  +  ·
```

Note: (Steps 1 and 2 are usually a one time setting. Later, when you are graphing and do not want to plot points, you will need to turn the **Plot1** off. To do this quickly, press `Y=` then use `∧` to get to the **Plot1**. Then press `ENTER` to toggle **Plot1** off. Press `∨` to get back to **Y1**.)