Step 1: <u>Enter the data</u> into the calculator (Lists)
- Hit $\boxed{\text{STAT}}$ button
- Hit Enter on 1: Edit   OR   Type 1 on the keypad
  - To clear data out of an entire list use the arrows to move the cursor to the L1, L2, …., hit the $\boxed{\text{CLEAR}}$ button and then $\boxed{\text{ENTER}}$
- Enter the data into the list using the $\boxed{\text{ENTER}}$ button in between each entry.

Step 2: <u>Graph</u> the scatter plot (optional, depends on the instructions)
- Hit the $\boxed{\text{Y} =}$ button
- Clear all of the Y1, Y2, …. Equations
- Quit this menu (Hit $\boxed{2^{\text{nd}}}$ and $\boxed{\text{MODE}}$)

- Go to the **Stat Plot** Menu ($\boxed{2^{\text{nd}}}$ and $\boxed{\text{Y} =}$)
- Hit Enter on 1: Plot 1
- Turn Plot 1 ON
- Select the Scatter Plot graph
- Xlist should be whichever list holds your *x* values (usually L1)
- Ylist should be whichever list holds your *y* values (usually L2)
- Mark should be the square
  - To Zoom
  - Hit the $\boxed{\text{ZOOM}}$ button
  - Hit Enter on 9: Zoom Stat
  - Adjust the window as needed – Use the $\boxed{\text{WINDOW}}$ button
- Hit the $\boxed{\text{GRAPH}}$ button

Step 3: <u>Find the equation</u> for the best-fitting line

- Hit the $\boxed{\text{STAT}}$ button
- Arrow to the CALC menu
- Hit Enter on 4: LinReg (ax+b)
  - You need to give the calculator three pieces of information… separated by commas
    - Where the x values are located
    - Where the y values are located
    - Where you want the calculator to put the equation after it finds it
- Type L1 (Hit $\boxed{2^{\text{nd}}}$ and $\boxed{1}$), then a $\boxed{\text{,}}$ (the button above the 7)
- Type L2 (Hit $\boxed{2^{\text{nd}}}$ and $\boxed{2}$), then a $\boxed{\text{,}}$ (the button above the 7)
- Hit the $\boxed{\text{VARS}}$ button
- Arrow to the Y-VARS menu
- Hit Enter on 1: Function
- Hit Enter on 1: Y1
- Hit $\boxed{\text{ENTER}}$
- Now you can hit $\boxed{\text{GRAPH}}$, and it will also show the line on your scatter plot.

How to graph a function that is only from an equation (not a set of data):

- Hit the Y = button
- Clear all of the Y1, Y2, …. Equations
- **Make sure that the Plot 1, Plot 2, and Plot 3 menus are not highlighted (unless you have a set of data in the Lists)**
- Type your equation into one of the Y= lines
- Hit the WINDOW button
- Adjust the window settings so that you will be able to see your graph.
- You can use the ZOOM menu but you will probably want to use option 5 or 6 to help you start the window and then you will have to adjust from there.