

## Adv. Functions: Calculator Steps for Finding a Regression Function/Equation

\* Note: After each step, “QUIT” → **2nd** **MODE** to get to a clear screen to move to the next step \*

Step 1: Diagnostics ON → **2nd** **0**  **$x^{-1}$**   **$\downarrow$**  (until see diagnostics on) **ENTER** (twice)

Step 2: Stat Plot ON → **2nd** **Y=** **ENTER** and make sure the word “ON” is highlighted (in black)

Step 3: Put Data In → **STAT** **ENTER** (for EDIT to be highlighted) then enter in data in L1 and L2

Step 4: Finding Regression Equation → **STAT**  **$\rightarrow$**  (to highlight CALC) then select correct equation **ENTER**

Step 5: Put Regression Equation in Calculator → **Y=** **VARS** **5**  **$\rightarrow$**   **$\rightarrow$**  **1**

Step 6: To see Data (Scatter Plot) on Screen → **ZOOM** **9** (may have to Zoom Out if can't see parts of graph)

Step 7: To complete the Problem by Finding a Y-value → **2nd** **WINDOW** and change Indpnt to ASK

- Find a y-value when given (or plug in) a x-value (to make predictions) – use table in your calculator

Step 8: To complete the Problem by Finding a X-value → **Y=** and put information in Y2 =

- Find a x-value when given a y-value – use intersection feature in your calculator

Step 9: To Clear Entries in List → **STAT** **ENTER** then individually **DEL** each number **(Don't delete lists!)**