Linear Regression with the TI

Task	TI 83 & 83⁺	TI 86
	1 st You need to clear any functions you have	
Starting	TISE Press [GRAPH] [F1] (y_{-}) [CLEAR] and for TISE Press [GRAPH] [F1] (y_{-}) [CLEAR] [EXIT]	
	2^{nd} You need to choose an appropriate window for y	our data and then guit or exit.
	[STAT] [1] <i>(EDIT)</i>	
		$[2^{+}]$ $[+]$ $(STAT)$ $[F2]$ $(EDTT)$
Clear Lists	Move to top of list (List Name) using the up arrow	[î] [CLEAR] [ENTER]
Fill Lists	Type in values for	Type in values for
(cont)	L1 and L2	xStat, yStat and fStat
	[2 ^{-rd}] [MODE] <i>(QUIT)</i>	(type 1 for each tStat value)
Seattor Diat		$\begin{bmatrix} 2 \end{bmatrix} \begin{bmatrix} EXII \end{bmatrix} (QUII)$
Scaller Piol	$\begin{bmatrix} PIESS [2] \\ [Y=] \\ (SIAI PLOI) \\ [I] \\ [ENTER] \\ [CPAPH] \\ [CP$	$\begin{array}{c} \text{PIess}\left[2 \right]\left[+\right]\left(\text{SIAI}\right) \left[\text{F3}\right] \\ \left(\text{PLOT}\right) \left[\text{E1}\right]\left(\text{PLOT}\right) \left[\text{ENITER}\right] \\ \end{array}$
		(PLOI) [FI] $(PLOII)$ [ENTER]
		[GRAPH] [F5] (GBAPH)
Calculate	Press [STAT] [\Rightarrow] (CALC) [4] [ENTER]	Press [2 nd] [+] <i>(STAT)</i> [F1]
LinReg		(CALC) [F3] (LinR) [ENTER]
Window	LinReg	LinReg
	y = ax + b	y = a + bx
	a = .2402037351	a =8.717385399
	b = 8.717385399	b = .2402037351
	r = .9516135878	corr = .9755068364
Diagnostia	I = .97330083364	11 = 6
Diagnostic	If your window does not show: $r^2 = 9516135878$, $r = 9755068364$ it means your diagnostic	
	is turned off.	
	1. $[2^{nd}]$ [0] (CATALOG) 2. than press $[X^{-1}]$ and use $[\downarrow]$ to move down the list until you find	
	DiagnosticOn . 3. Press [ENTER] to paste this instruction to the home screen and press	
	[ENTER] a second time to set the mode. (leave the diagnosticOn)	
Graph	Press [Y =] [VARS] [5] [\Rightarrow] [\Rightarrow] (EQ) [1] [GRAPH]	Press [2 nd] [ENTER] [2 nd]
		[ALPHA][0](y)[1][ENTER]
	$\begin{array}{c} \text{PIESS [STAT] []} (CALC) [] 4] [VARS] [] \\ (V, VARC) [1] (V) [ENTED] [ENTED] [CDADU] \end{array}$	[GRAPH] [F5] <i>(GRAPH)</i>
Evaluate/Predict	$\frac{(1-\sqrt{A}+3)}{2} \begin{bmatrix} 1 \\ 1 \end{bmatrix} \begin{bmatrix} 1 \\ 1$	Pross $[2^{nd}][+](STAT)$ [MORE]
In Granh	$Y_{0,1}$ Y_{0	[F1] (FCST)
Window	prediction an press [ENTER]	Move the cursor to either $x=$ or $y=$
		an type in give value. To solve
		move cursor to opposite y Or x [F5]
		(SOLVE) [Exit]
	In each case check that Type is the Scatter Plot (the 1° picture) xlist and ylist correspond	
	When you have completed all your regressions be sure to turn off your Scatter Plot:	
Turn off Scatter	TI 83 & 83⁺ [y=] [Î]][ENTER] [IJ] TI86 [GRAPH] [F1] (Y=) [Î]](PLOT1)	
Plot	[ENTER] [↓] <i>(y1)</i>	