Scatter Plots

Let,

x = years after 2000

y = electric car research (\$ millions)

x	0	1	2	3	4	5
y	2.1	3.3	4.9	4.7	6.4	7.8

Scatter Plot cont.
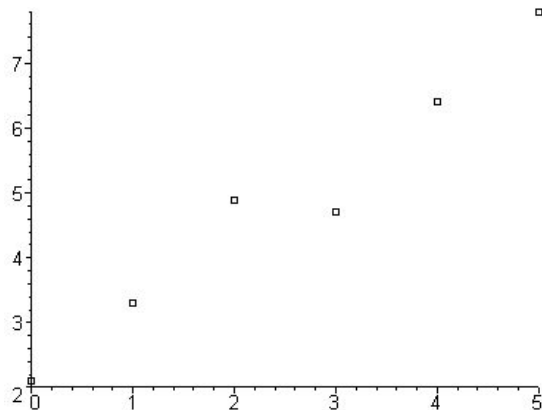
Scatter Plots cont.

Go into Flash Apps.
(**APPS**) (**1**)   1: FLashApps

Select "Stats/List Editor"

list1	list2
0	2.1
1	3.3
2	4.9
3	4.7
4	6.4
5	7.8

Enter the table of data.

Put the x-values into list1
Put the y-values into list2

Scatter Plots cont.

list1	list2
0	2.1
1	3.3
2	4.9
3	4.7
4	6.4
5	7.8

Plot Setup

Now you must define your plot setup.

$\boxed{\text{F2}}$ $\boxed{1}$ 1:Plot Setup...

Highlight "plot1" $\boxed{\text{F1}}$ to define

Plot Settings

Plot Type ...   Scatter

Mark ...   Box

x ...   list1

y ...   list2

Use Freq ...   No

$\boxed{\textbf{ENTER}}$ to save settings. $\boxed{\textbf{2nd}}$ $\boxed{\textbf{ESC}}$ to quit

To Graphing

From homescreen go into "y=" menu. $\boxed{\diamondsuit}$ $\boxed{\textbf{F1}}$

Clear out any old y's.

Graph with Zoom Standard. $\boxed{\textbf{F2}}$ $\boxed{\textbf{6}}$

$\boxed{\textbf{F3}}$ Trace.

Calculating

Go back into the Stats/List Editor.

Go to Calculate.

$\boxed{\text{F4}}$ $\boxed{3}$ 3:Regressions

$\boxed{2}$ 2:LinReg(ax+b)...

Regression Settings

X List :   list1

Y List :   list2

Store RegEqn to : $y1(x) \rightarrow$

Freq :   1

$\boxed{\textbf{ENTER}}$ to save settings.

Results

$y = ax + b$
$$a = 1.074286$$
$$b = 2.180952$$
$$r^2 = .957486$$
$$r = .978512$$

$\boxed{\textbf{2nd}}$ $\boxed{\textbf{ESC}}$

Back to Graph

◇ F1

◇ F3 graph

F3 trace

More Calculating

Go back into the Stats/List Editor.

Go to Calculate.

(**F4**) (**2**)   2:2-Var Stats...

X List :   list1

Y List :   list2

Freq :   1