TI-Nspire™ Software Script

Manually entering a list of data (Tutorial C1)

http://www.atomiclearning.com/k12/en/movie/86411/play_window?type=Tutorial&sid=2421

[00:00:00.00]
To manually enter a list of coordinates, first insert
the Lists & Spreadsheet application into a new page by

[00:00:07.00]
clicking Insert and choosing Lists & Spreadsheet. Next,
enter your list of coordinates. To do this, I'll click

[00:00:17.00]
in the white space just to the right of the letter A at
the top of column A. I'll type "x" "c" "o" "o" "r" "d" and

[00:00:31.00]
then press Enter. This defines any values I enter into
column A as a list linked directly to the variable called

[00:00:39.00]
"xcoord," which includes the x-coordinate values. Now, I'll
name column B "ycoord" using this same technique, first

[00:00:50.00]
by clicking on the white space to the right of the letter
B, and then typing "y" "c" "o" "o" "r" "d," followed by

[00:01:02.00]
the Enter key. I have a series of coordinates to enter.
I'll enter the x coordinates in column A, and the y coordinates

[00:01:10.00]
in column B. Remember that you can pause this movie at
any time while you enter the data. Let's start with the

[00:01:18.00]
x-coordinates, pressing Enter after you type each number.
I'll manually enter in 0.5, 1.5, 2, 6, 8, 15, 19, and 45

[00:01:38.00]
into column A. Next, I'll go up to the cell B1 and enter "0."
Notice that the y-coordinates increase by 10 every time.

[00:01:50.00]
To save myself from typing, I'll express each coordinate
as a function of the coordinate preceding it. To do this,

[00:02:00.00]
in cell B2 I'll type "=" and then type "b1," followed by
"+10." The full cell formula now reads "=b1+10." Now, I'll

[00:02:16.00]
click Data in the Document Tools, or right- click and select
the Fill command. Now, I'll just use the down arrow key

[00:02:26.00]
to highlight the cells through cell B8, and then press
Enter. Notice that the values have been populated all the

[00:02:35.00]
way through 70. You can also use a list name as a function
in another list. For example, if I wanted to take all of

[00:02:45.00]
the x-coordinate values in column A, and then square them
and add six, then enter these values into column C, I can

[00:02:54.00]
click the formula cell for column C, which is the cell
just above C1, and then type "=" "x" "c" "o" "o" "r" "d"

[00:03:10.00]
"Shift-6", "2", then the right arrow to move out of the exponent,
and then "+6". Now, when I press the Enter key, the application

[00:03:25.00]
will evaluate this expression based on the list linked with the
variable "xcoord" which is what we named column A.

[00:03:35.00]