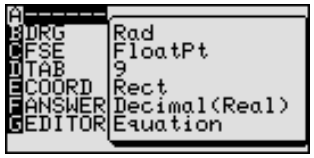
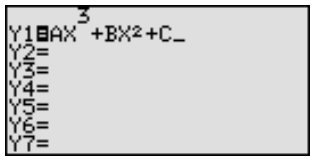
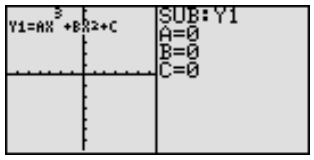
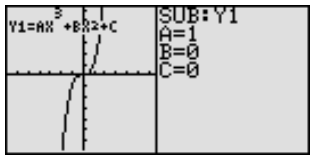
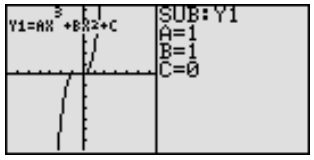
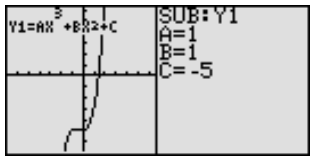
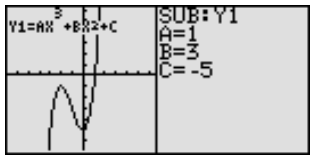
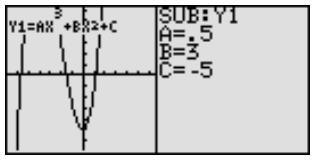
Substitute graph function

Example

Use substitute graph function to see how the shape of the graph changes when different numbers are substituted for the variable.

Before carrying out the following operation, press the reset switch located on the back of the unit and press [CL] [ENTER] keys (caution: previously entered equations and memory will be erased).

	Key Operation	***Display***	***Notes***
1	[2nd F] [SET UP] [E] [1]		Specify Rect mode on the screen. [As shown, Rect corresponds to **E COORD** . The example shows the initial settings of the EL-9650/9600c.]
2	[Y=] [ALPHA] [A] [X/θ/T/n] [a^b] [3] [▶] [+] [ALPHA] [B] [X/θ/T/n] [x^2] [+] [ALPHA] [C]		Enter the graph equation "AX^3+BX^2+C" at Y1.
3	[2nd F] [SUB]		Specify substitute graph mode. [As shown, the left of the screen shows the graph coordinate and the right of the screen shows that input of the variable used in the equation is being awaited.]
4	[1] [ENTER]		Substitute 1 for variable A. (On left of screen the graph "$Y=1X^3$" is displayed. B and C are presumed to be "0" as numbers have not been entered.)
5	[1] [ENTER]		Substitute1 for variable B. (On left of screen the graph "$Y=1X^3+1X^2$" is displayed. C is presumed to be "0" as numbers have not been entered).
6	[(–)] [5] [ENTER]		Substitute -5 for variable C. (On left of screen the graph "$Y=1X^3+1X^2-5$" is displayed. Thus all variables are substituted with numbers.)
7	[▲] [3] [ENTER]		Alter the numbers for variable B from 1 to 3 and view the changes in the graph. (The graph equation is $Y=1X^3+3X^2-5$).
8	[▲] [▲] [0] [•] [5] [ENTER]		Similarly, alter the numbers for variable A from 1 to 0.5 and view the changes in the graph. (The graph equation is $Y=0.5X^3+3X^2-5$).