

How to Input a Function and Display Its Table of Values

CALCULATORS: Casio: *fx-300ES* • Casio: *fx-300MS*

Rationale

A unique feature of the Casio *fx-300ES* is its ability to display a function and its table of values. This feature is impossible to perform on the *fx-300MS*. With the table capability of the *fx-300ES*, this bridges the gap between the scientific calculator and the graphing calculator making the transition easier for the user.

Problem:

Fiona works at a local music store. Fiona is paid a weekly salary of \$270 plus an additional \$0.25 for each CD sold. Write an equation to model the problem that calculates the weekly salary based on the number of CDs sold per week.

fx-300ES

To begin, the following key strokes should be used.

- To clear the memory, press **SHIFT CLR 2** (Memory) = for yes. Press **AC** .
- Press the **MODE** key.
- Press **3** to activate the Table application.
- The function notation $f(x)=$ appears. Input the equation next to the $f(x)=$ notation.
- Input the equation $f(x)= 270 + .25X$.
- To input the variable "X", press **ALPHA** and the x key to use the variable "X".
- Press the equal key (=).
- Enter your starting value. Since it is possible to not sell any CDs during a particular week, enter **0**.
- Press = .
- Enter your ending value. Select 25 as a possible value.
- Press = .
- Enter the step value. Since the CDs are individual units, leave the step value at its default, which is 1.
- Press = .
- It should be noted that due to the memory capability on the *fx-300ES*, you might need to input a smaller range within the table or increase the step value in order to accommodate the values desired for the situation.

Note: From the Table view, pressing **AC** returns you to the $f(x)$ screen. From here, you can make modifications to the function previously entered.