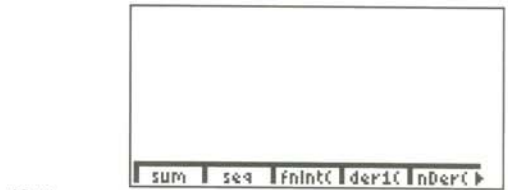EXPLORATIONS

A P P E N D I X

C

Custom Menus

The TI-86, like the TI-85, has a custom menu feature which can be a great convenience in situations when there are certain commands that will be used repeatedly. In this appendix we will briefly consider the two major custom menu features of the TI-86.

Using the Catalog Option to Place Items in the Custom Menu

The CUSTOM key accesses the custom menu, but the user first has to take some sort of action to place items in the custom menu. The custom menu will hold up to fifteen items. The easiest way to put items in the custom menu is through the catalog option.

In particular, if we want (C.1) to result if the CUSTOM key is pressed, we can proceed as follows.

(C.1)

1. Press 2nd [CATLG-VARS] ⟨**CATLG**⟩ and proceed to move the cursor to the **sum** command as indicated in (C.2).

(C.2)

2. Then select ⟨**CUSTM**⟩ and press F1. Remain in the catalog but page up to the **seq** command as indicated in (C.3). Press F2 to place the **seq** command in the second position of the custom menu.

(C.3)

In similar manner, place the **fnInt**, **der1**, and **nDer** commands in positions 3, 4, and 5. Once this has been accomplished, press 2nd [QUIT] to return to the home screen.

Pressing CUSTOM will now give (C.1).

Using LCust to Place Items in the Custom Menu

A new feature on the TI-86, which was not available on its predecessor the TI-85, is the **LCust** command. It can be used from the home screen or in a program to place up to fifteen items in the custom menu, even items which are not in the catalog.

1. For example, (C.4) shows the execution of the home screen command which will place $\pi/2$ in the third position of the custom menu. Note that the syntax of **Lcust** is such that the number gives the position the quoted item will occupy in the custom menu.

```
LCust(3,"π/2")
                    Done
```

(C.4)

2. Figure (C.5) will then result from (C.4) by pressing [CUSTOM] [F3] [ENTER].

```
LCust(3,"π/2")
                    Done
π/2
          1.57079632679
```

```
          |    |  π/2 |    |    ▶
```

(C.5)

Even though the **LCust** command can be used from the home screen, it can also be used in a program. The following two short programs make use of the **LCust** command to create two custom menus, each with the easy ability to switch to the other menu. The first program is named Ccal (for custom calculus menu), and the second program is named Cmat (for custom matrix menu).

```
                        Ccal
:Lcust(1,"sum",2,"seq",3,"fnInt(",4,"der1(",5,"nDer(",6,"Cmat")
:Stop
```

```
                        Cmat
:Lcust(1,"det",2,"eigVl",3,"eigVc",4,"rref",5,"Ccal")
:Stop
```

1. After creating the two programs using the program editor, exit to the home screen and execute the Ccal program as indicated in (C.6).

```
Ccal
                    Done
```

(C.6)

Custom Menus *(Continued)*

2. Then press [CUSTOM] to obtain (C.7).

```
Ccal
                        Done


 sum   seq  fnIntC deriC nDerC ▶
```

(C.7)

3. To switch to the matrix custom menu, press [MORE], select ⟨**Cmat**⟩, and press [ENTER] to obtain (C.8).

```
Ccal
                        Done
Cmat
                        Done


```

(C.8)

4. Finally, press [CUSTOM] to see that the custom menu is now the matrix custom menu as indicated in (C.9). From (C.9), pressing [F5][ENTER] will return us to the calculus custom menu.

```
Ccal
                        Done
Cmat
                        Done

 det   ei9V1 ei9Vc  rref  Ccal ▶
```

(C.9)

As a final note about custom menus, we mention that to remove an item from the custom menu we press [2nd][CATLG-VARS] ⟨**CATLG**⟩ ⟨**BLANK**⟩ and then press the **F** key corresponding to the item to be deleted from the custom menu.