

Using a Ti Calculator

Today we are going to look at some features of Ti Calculators that may be helpful in Calculus.

Pressing the Y= key lets us enter an equation. Note that the variable is listed in the X,T, key.

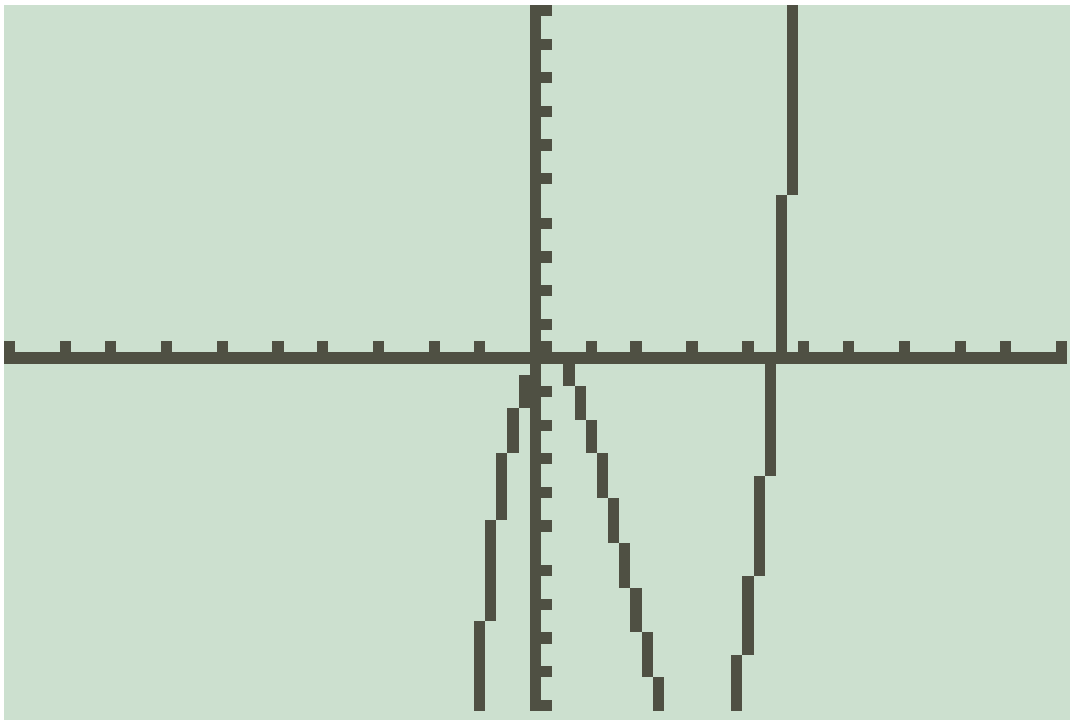


Having entered an equation, note that there are a number of menu items that may be of interest:

WINDOW
ZOOM
FORMAT
CALC
TRACE
GRAPH

Note that the gold items require you first press the [2nd] key.

Pressing the Graph Key we see a graph



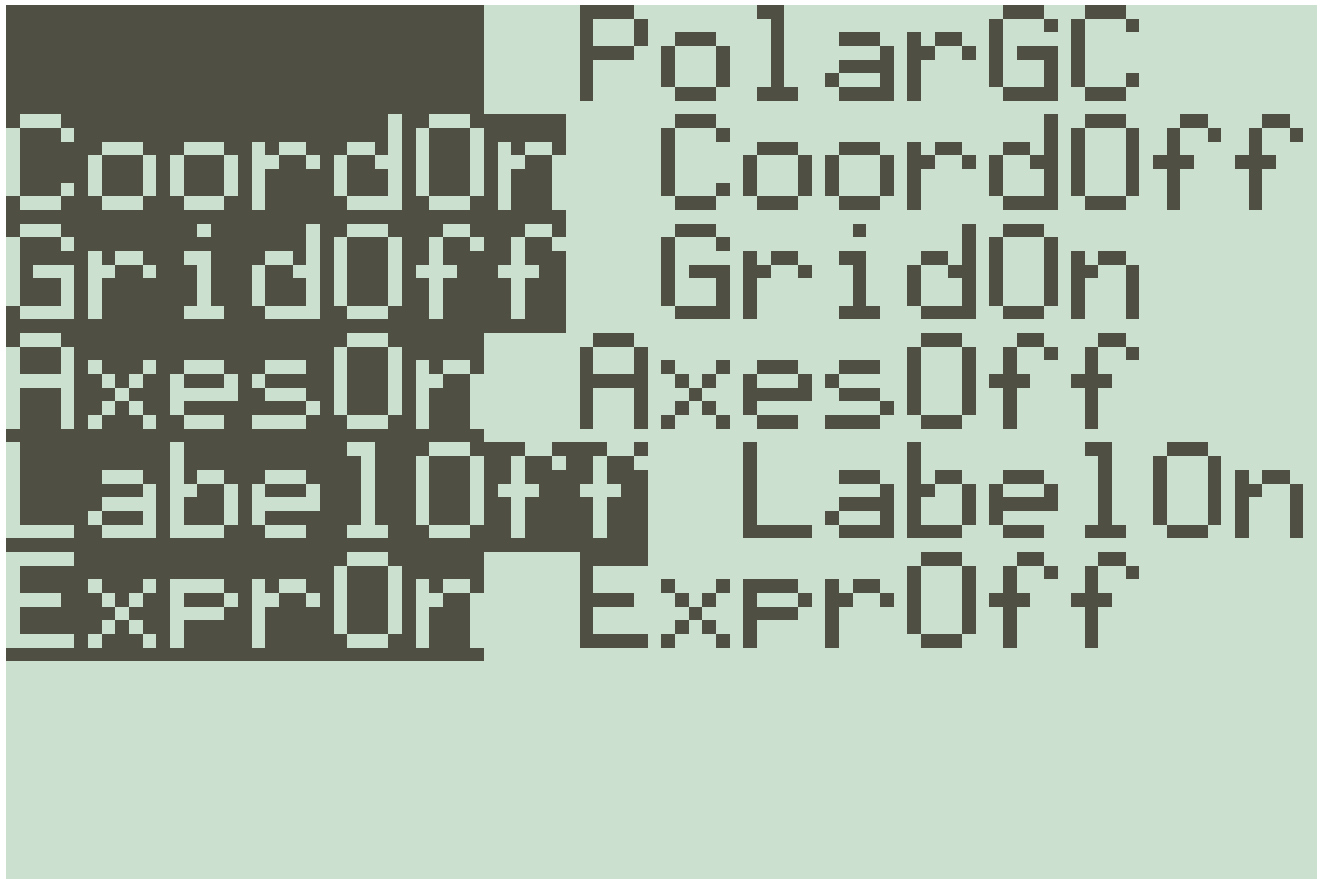
Pressing the Window Key allow us to change the scale on the graph

```
WINDOW
Xmin=10
Xmax=10
Xscl=1
Ymin=-10
Ymax=10
Yscl=1
Xres=1
```

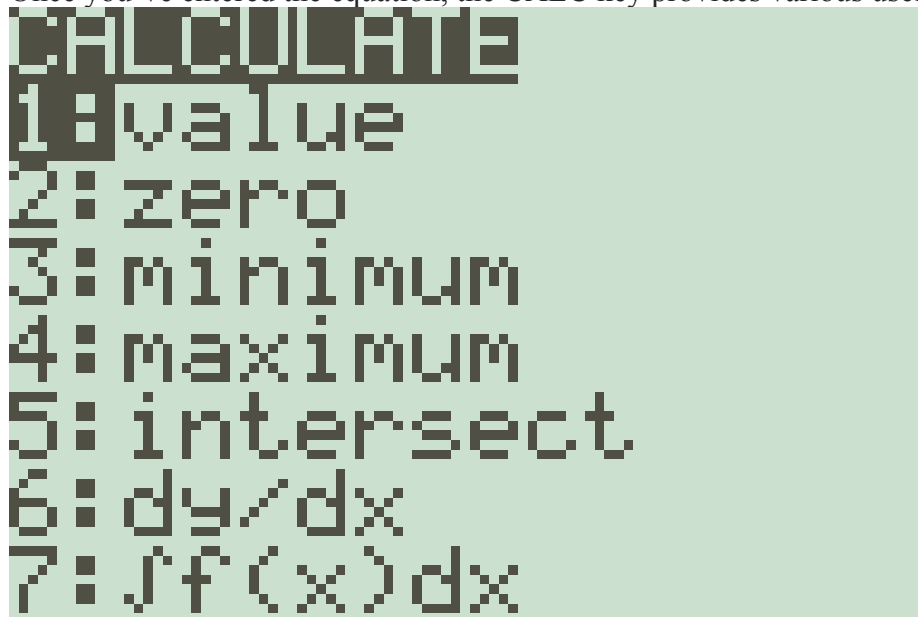
The ZOOM key also lets you adjust the screen in various ways

```
ZOOM MEMORY
1: ZBox
2: ZOOM In
3: ZOOM Out
4: ZDecimal
5: ZSquare
6: ZStandard
7: ZTrig
```

The Format Key lets you control the type of graph as well as adjusting some of the detailed parts



Once you've entered the equation, the CALC key provides various useful functions.



You use 1 to find the value of the function at some x.

You can use 2 to find a zero

You can use 3 and 4 to find a maximum or a minimum

You can use 5 to find an intersection of two graphs

You can use 6 to find the derivative at some x

You can use 7 to calculate the area under a graph.

All of these functions are numerically, not analytically so the results can be approximate. In extreme examples they can also be quite inaccurate.