

Basics of Ti Calculator Programming

To generate a program in your calculator you need three basic parts

1. An input section
2. A calculation section
3. An output section

The input section is where your variables are passed to the program and set-up.

- For our purposes *Input* is perhaps the best command to use.
- The syntax is as follows: `Input "The display message you want ", Variable Name`
- An example is: `Input "Enter Height ", H`

The calculation section is where you have the program perform some operations with your variables.

- Here is where you enter your equation, solved for the variable you want.
- The syntax is as follows: `your equation → variable you want`
- The symbol `→` is placed using the `STO>` key on your calculator.
- An example is: `(180/π)*RAD → DEG`

The output section is where values for your variables are passed to the display.

- For our purposes *Disp* is perhaps the best command to use.
- The syntax is as follows: `Disp "The display message you want ", Variable to be displayed`
- An example is: `Disp "Magnitude ", M`

Quadratic Equation Solver

The code for the program is listed below. Be sure to include all of the symbols noted.

:

: Input "A ", A

: Input "B ", B

: Input "C ", C

:

: $(-B + \sqrt{B^2 - 4*A*C}) / (2*A) \rightarrow R$

: $(-B - \sqrt{B^2 - 4*A*C}) / (2*A) \rightarrow S$

:

:Disp "X1 ", R

:Disp "X1 ", S

: