

0 General Tools

Cancel a computation

Some computations may take a long time. For example, say you want to plot the function

$$\int_0^x \sqrt{t-3}dt.$$

If you input it by pressing y= (see 5.5.1) and press the graph button to plot the function, it will take a very long time to load, and you will not be able to switch to another screen (for example if you want to change the window) directly.

If you want to cancel the computation (shown with a state top right of the calculator), simply press and off, as if you where turning off the calculator (the symbol should disappear).

You will regain access to your calculator so you can exit the graph.

Speed up the plot of a function

Suppose you want to solve the equation

$$3 = \int_0^x \sqrt{t - 3} dt.$$

Plotting the function $\int_0^x \sqrt{t-3}dt$ directly will be very time consuming. If you want to speed up the computation, press window and change Xres=1 to Xres=8¹

Shortcuts

Tools involving fractions can be found by pressing and y=

Useful functions can be found by pressing alpha and window .

Matrices can be constructed fast by pressing alpha and zoom

Functions you created can be called by pressing alpha and trace

Solve quickly an equation

¹Xres is an integer n from 1 to 8 that will tell the calculator to draw the graph every n pixels.



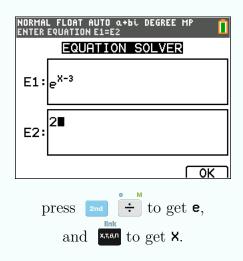


The following tool will only find **one** solution for an equation. It might not give **all** the solutions. More precisely, the functions involved in the equation need to be bijections on their range (e.g. exp(x), ln(x), mx + c,...). To find all the solutions to a polynomial equation, see 1.8.2 on page 23.

Suppose you want to find a quick numerical solution to the equation

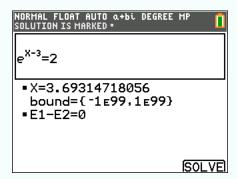
$$e^{x-3} = 2.$$

① Press (leading to Numeric Solver) and (enter), and fill the parameters as follows:



Press OK with the graph button.

② Press SOLVE. The following should display:



Thus, the answer is x = 3.69 (rounded up to 3 significant figures).





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