







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  (see 5.5.1) and press the  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  at the top right of the calculator), simply press  and , as if you were 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  and change **Xres=1** to **Xres=8**¹

Shortcuts

Tools involving fractions can be found by pressing  and .

Useful functions can be found by pressing  and .

Matrices can be constructed fast by pressing  and .

Functions you created can be called by pressing  and .

Solve quickly an equation






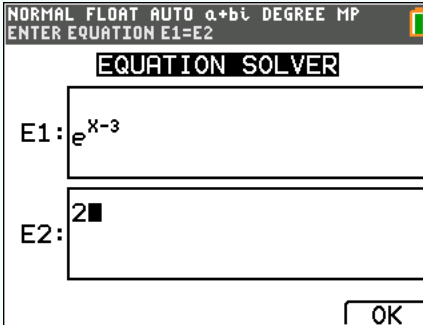
The following tool will only find **one** solution for an equation. It might not give **all** the solutions. To find all the solutions to a polynomial equation, see 1.8.2 on page 23.

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

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



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

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

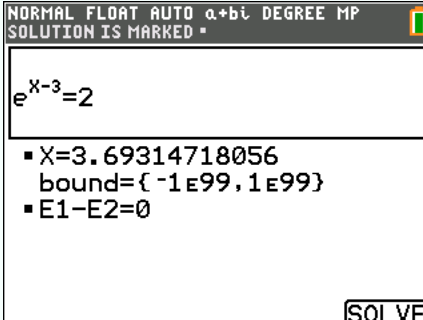


The screen shows the 'EQUATION SOLVER' interface. At the top, it says 'NORMAL FLOAT AUTO a+bI DEGREE MP' and 'ENTER EQUATION E1=E2'. Below this, 'E1:' is followed by a text box containing e^{X-3} . 'E2:' is followed by a text box containing '2'. At the bottom right is an 'OK' button.

press   to get **e**,
and  to get **X**.

Press  with the  button.

- ② Press . The following should display:



The screen shows the 'SOLUTION IS MARKED *' message. Below this, it displays $e^{X-3}=2$. Then, it shows the solution: $X=3.69314718056$, the bounds: $\text{bound}=\{-1E99,1E99\}$, and the residual: $E1-E2=0$. At the bottom right is a 'SOLVE' button.

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

1 Number and algebra