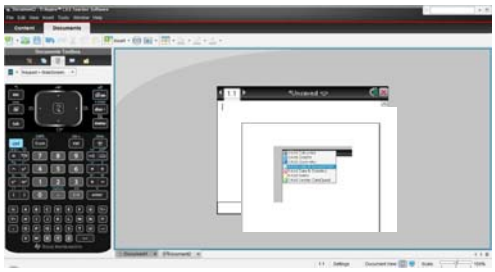
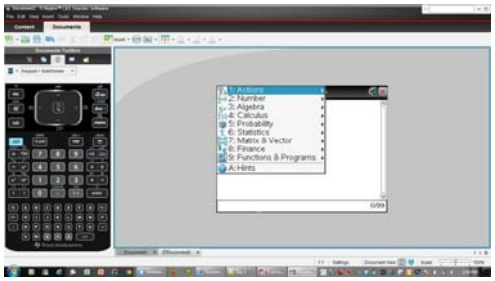
TI-Emulator Software

- To use algebraic software, choose the icon with the arithmetic symbols
- Press Menu



This is what we call calculator mode.

Actions: Commands regarding variables
Number: gcd, lcf, factor, decimal to fraction, fraction to decimal
Algebra: Solve equations, factor
Calculus: Integrate, differentiate,
Probability: combinatorics
Statistics: Regressions, stat tests
Matrix & Vector: matrix arithmetic, cross product, dot product
Finance: Interest functions
Functions & Programs: Self evident



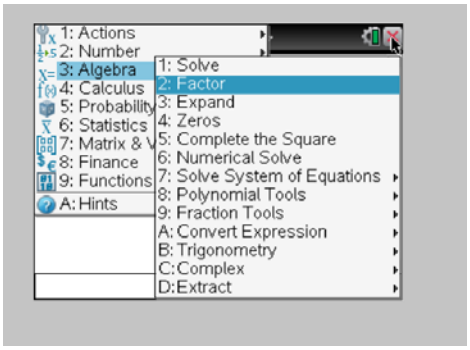
This is a quick list of the menu items for each choice.

Since this is a quick introduction to TI-Interactive Software, we will focus on the aspects of the software that will be most used in your classroom.

- Algebra
- Calculus
- Probability
- Statistics
- Graphs
- Lists and Data

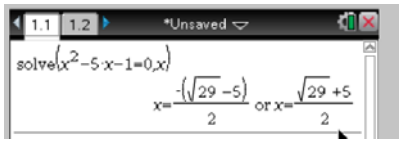
Algebra

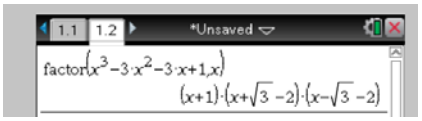
Solve: Can be used to check work in class
Factor: Factor Polynomials
Expand: Expand a product of polynomials

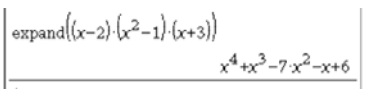


If you have a non-CAS calculator: nsolve(x^2+x-6=0,x,0,1) finds the solutions between 0 and 1.

Notice the syntax and the solutions are exact.

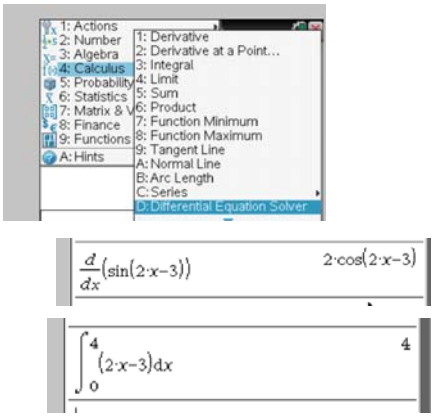






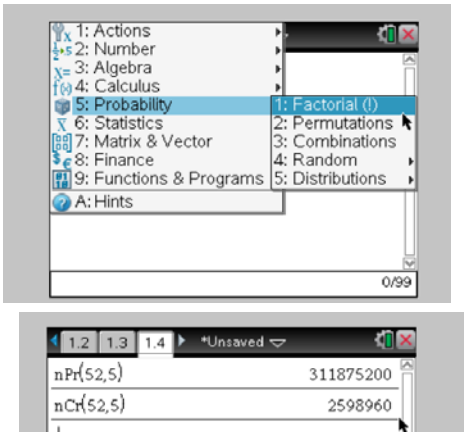
the x after the comma in the solve of nsolve command tells the calculator the variable for which you are solving

Calculus



This is for later in the year

Probability

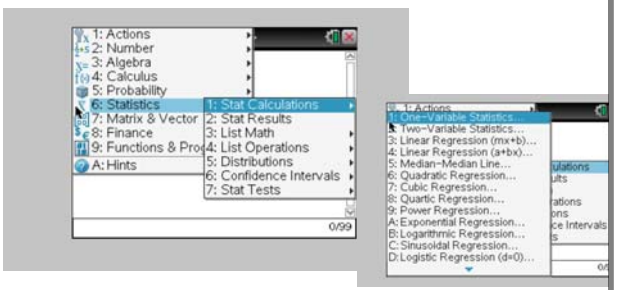


You can even simplify (n+1)!/n!

nCr(52,5) computes the number of possible ways of choosing 5 objects out of 52.

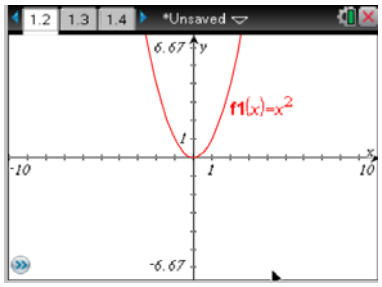
nPr(52,5) computes the number of possible ways of permuting 5 objects out of 52.

Statistics

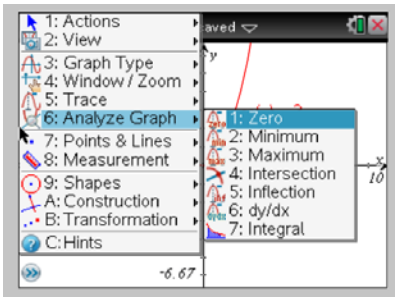


Not necessary for Calculus, but if you add your data in the List Page, you can do all sorts of stats on it.

Graphs

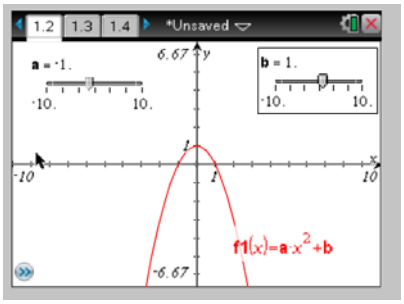


Analyze Graph



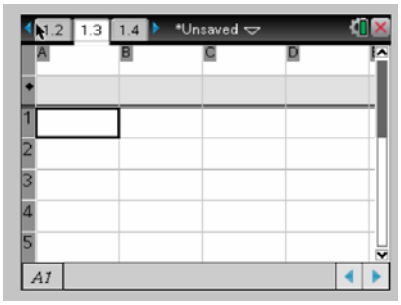
Make sure when you are finding zeros, that your lower and upper bound only surround ONE zero at a time.
This is the same for intersection points, maxes, and mins.

- Actions --> Insert Slider
- Coefficients are variables
- Slide the button and watch animation



If you want to do cool animation with your graphs, you can leave your coefficients as letters, then define them in sliders.

Data and Statistics



This is where you would put your data to do stats on them. I don't know why it's way down here and the stats page is way up there. Sorry.

- Data can be entered manually
- Data can be entered as a formula
- A random number generator can also be used to simulate trials