

## GeoGebra Tutorial: Basic CAS

Turn on the CAS view. Input the following commands:

1.  $1/2+1/3$
2. `sqrt(12)+sqrt(80)-sqrt(75)`
3.  $3x^2+6x-4-(4x+2-x^2)+(x-1)*(x-9)$
4. `Solve[3x-4=7]`
5. `Solve[x^2-5x-8=0]`
6. `Solve[2*x^2+(k+1)*x-k^2=0]`
7. `Solve[x^2-5x+6>=0]`
8. `Solve[{3x-4y=10,5x-2y=8}]`
9. `Solve[{3x-4y+z=10,5x-b*y-z=8,a*x-4y=6z}]`
10. `Solve[{x^2+y^2-2x+y-8=0,x+y=3}]`
11. `Solve[(5y+x)/(1+x)=3,y]`
12. `Solve[(5y+x)/(1+x)=3,x]`
13. `Expand[(3x-4y)^2]`
14. `Factor[2013]`
15. `Factor[x^2-9x-36]`
16. `Derivative[x^2/sqrt(x+1)]`
17. `Integral[(3x+4)/sqrt(2x-1)]`
18. `Simplify[$]` (\$ means the previous output, \$n means the output of row n)
19. `f(x):=x^2+x`
20. `f(n+1)`

Reference:

1. [https://www.geogebra.org/manual/en/CAS\\_View](https://www.geogebra.org/manual/en/CAS_View)
2. <https://www.geogebra.org/b/ogeMblif>