

TI-84 CAS Cheat Sheet

--- BASIC SYMBOLIC COMMANDS ---

factor(expr) → Factors algebraic expressions
expand(expr) → Expands expressions
simplify(expr) → Simplifies algebraic expressions
solve(eq, var) → Solves an equation symbolically for a variable
solve({eq1, eq2}, {x, y}) → Solves systems of equations

--- CALCULUS COMMANDS ---

d(expr, var) → Derivative of expression w.r.t variable
integrate(expr, var) → Integral of expression w.r.t variable
limit(expr, var, val) → Limit as variable approaches value
series(expr, var, val, n) → Taylor/Maclaurin expansion to order n

--- GRAPHING COMMANDS ---

Plot $y = f(x)$ → Graph function
Parametric Mode → Plot $x(t), y(t)$
Polar Mode → Plot $r = f(\theta)$
Trace Mode → Move along curve and see coordinates

--- MATRIX & LISTS ---

[[a,b], [c,d]] → Matrix definition
det(A) → Determinant of matrix A
inv(A) → Inverse of matrix A
 $A*B$ → Matrix multiplication
{1,2,3,4} → List creation

--- PROGRAMMING BASICS ---

:Prompt A,B
:Disp "Sum=", A+B
:Pause → Pause execution
:If condition
:Then ... :End → Conditional blocks
:For(X,1,10,1) ... :End → Loops

--- MISCELLANEOUS ---

Ans → Last computed result
Store → (→) → Store value into variable
clear → Clears screen/memory
Mode Settings → Switch Radian/Degree, Graph Type, etc.
2nd + Mem → Memory management & archiving

--- CAS TIPS ---

- Use parentheses carefully
- Archive large programs before symbolic work
- Always test symbolic results numerically
- Use CAS for verification, not dependency
- Save often & backup before firmware updates