

Mathomatic version 15.8.3 Quick Reference Card		
Command	Usage	Notes
approximate	approximate [equation-number-ranges]	Related command: calculate
calculate	calculate ["factor"] [equation-number-range] [variable iterations]	This command may be preceded with "repeat".
clear	clear [equation-number-ranges]	Tip: Use "clear all" to quickly restart Mathomatic.
code	code ["c" or "java" or "python" or "integer"] [equation-number-ranges]	Related commands: simplify, optimize, and variables
compare	compare ["symbolic" "approx"] equation-number ["with" equation-number]	This command may be preceded with "repeat" for full simplify.
copy	copy [equation-number-ranges]	Duplicate the contents of the specified equation spaces.
derivative	derivative ["nosimplify"] variable or "all" [order]	Alternate name for this command: differentiate
display	display ["factor" "mixed"] [equation-number-ranges]	Display expressions in pretty, 2D multi-line fraction format.
divide	divide [base-variable] [dividend divisor]	This command may be preceded with "repeat".
echo	echo [text]	This command may be preceded with "repeat".
edit	edit [file-name]	Editor name in EDITOR environment variable.
eliminate	eliminate variables or "all" ["using" equation-number]	This command may be preceded with "repeat".
extrema	extrema [variable] [order]	Helps with finding the minimums and maximums.
factor	factor ["number" [integers]] or ["power"] [equation-number-range] [variables]	Alternate name for this command: collect
for	for variable start end [step-size]	Same syntax as the sum and product commands.
fraction	fraction ["numerator" "denominator"] [equation-number-range]	This command may be preceded with "repeat".
help	help [topics or command-names]	Alternate name for this command: ?
imaginary	imaginary [variable]	Related command: real
integrate	integrate ["constant" or "definite"] variable [order]	Alternate name for this command: integral
laplace	laplace ["inverse"] variable	This command only works with polynomials.
limit	limit variable expression	This limit command is experimental.
list	list ["export" or "maxima" or "gnuplot" or "hex"] [equation-number-ranges]	Options to export expressions to other math programs.
nintegrate	nintegrate ["trapezoid"] variable [partitions [lower-bound upper-bound]]	This command cannot integrate over singularities.
optimize	optimize [equation-number-range]	Split up equations into smaller, more efficient equations.
pause	pause [text]	Display a line of text and wait for user to press the Enter key.
plot	plot [equation-number-ranges] [xyz-ranges] [expressions,]	Plots variable x; if expression contains y, do a 3D surface plot.
product	product variable start end [step-size]	Related command: sum
push	push [equation-number-ranges or text-to-push]	Available only if readline is enabled.
quit	quit [exit-value]	Alternate name for this command: exit
read	read file-name	This command may be preceded with "repeat".
real	real [variable]	Related command: imaginary
replace	replace [variables ["with" expression]]	Substitute variables in the current equation with expressions.
roots	roots root real-part imaginary-part	This command may be preceded with "repeat".
save	save file-name	Related command: read
set	set [{"no"} option [value]] ...	"set" by itself will show all current option settings.
simplify	simplify ["sign" "symbolic" "quick[est]" "fraction"] [equation-number-ranges]	This command may be preceded with "repeat" for full simplify.
solve	solve ["verify"] [equation-number-range] [{"for"} variable or "0"	The verify option checks all displayed solutions.
sum	sum variable start end [step-size]	Related command: product
tally	tally ["average"]	Prompt for and add entries, showing running total.
taylor	taylor ["nosimplify"] variable order point	Compute the Taylor series expansion of the current expression.
unfactor	unfactor ["count" "fraction" "quick" "power"] [equation-number-range]	Alternate name for this command: expand
variables	variables ["c" or "java" or "integer" or "count"] [equation-number-ranges]	Related command: code
version	version	Display Mathomatic version, compiler, and license information.

Anything enclosed by straight brackets **[like this]** means it is optional and may be omitted.

For more information, visit www.mathomatic.org