Mathquill commands

mathrm a mathit a mathbf a mathsf a mathtt a unit a solution a extramot a underline a bar a overline a red a blue a green a violet a orange a a subscript a violet a orange a superscript a fraction a b closet a supscript a superscript a fraction a b cfrac a dfrac a frac a b over a b v a laftrac a frac a b b langle (a) langle (a) rbrack [a] brace {a} langle (a) laparen (a) rbrack [a] ra	command	output	command	output	command	output	command	output
underline \underline{a} bar \overline{a} overline \overline{a} red a blue a green a violet a orange a a subscript a a violet a orange a a subscript a a violet a orange a superscript a fraction $\frac{a}{b}$ a supscript a superscript a fraction $\frac{a}{b}$ a supscript a superscript a fraction $\frac{a}{b}$ a supscript a superscript a fraction $\frac{a}{b}$ a a a superscript a <	mathrm	a	mathit	а	mathbf	a	mathsf	а
blue a green a violet a orange a subscript a subscript a subscript a subscript a superscript a fraction a subscript a superscript a superscript a fraction a superscript a superscript a fraction a superscript a supers	mathtt	а	unit	a	solution	а	extramot	а
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	underline	<u>a</u>	bar	$\frac{\overline{a}}{a}$	overline	\overline{a}	red	а
superscript a fraction $\frac{a}{b}$ cfrac $\frac{a}{b}$ dfrac $\frac{a}{b}$ fraction $\frac{a}{b}$ cover $\frac{a}{b}$ $$ \sqrt{a} sqrt \sqrt{a} nthroot $\sqrt[q]{b}$ lbrace $\{a\}$ lang $\langle a \rangle$ langle $\langle a \rangle$	blue	а	green	а	violet	а	orange	а
frac $\frac{a}{\sqrt{b}}$ over $\frac{a}{b}$ $$ \sqrt{a} sqrt \sqrt{a} nthroot $\frac{a}{\sqrt{b}}$ brace $\{a\}$ lang (a) langle (a) langle (a) refrace $\{a\}$ rang (a) rangle (a) lparen (a) bracket $[a]$ brack $[a]$ rpipe $ a $ lpipe $ a $ abs $ a $ norm $ a $ openBoth $ a,b $ closed $ a,b $ openLeft $ a,b $ openRight $ a,b $ openleft (a,b) openright $ a,b $ openleft $ a,b $ openright $ a,b $ openleft $ a,b $ openright $ a,b $ openboth $ a,b $ lintegral $ a,b $ openboth $ a,b $ $ a,b $ openboth $ a,b $ lintegral $ a,b $ openboth $ a,b $ lintegral $ a,b $ openboth $ a,b $ openboth $ a,b $ $ a,b $ openboth $ a,b $ openboth $ a,b $ $ a,b $ openboth $ a,b $ ope	_	а	subscript	а	^	а	supscript	а
nthroot $ \sqrt[a]{b} $ lbrace $ \{a \} $ lang $ \{a \} $ langle $ \{a \} $ rang $ \{a \} $ range $ \{a \} $ lparen $ \{a \} $ lbrack $ \{a \} $ rparen $ \{a \} $ rbracket $ \{a \} $ rpipe $ [a] $ lpipe $ [a] $ abs $ [a] $ norm $ [a] $ openBoth $ [a , b] $ openIeft $ [a , b] $ openBoth $ [a , b] $ ope	superscript	а	fraction	<u>a</u> b	cfrac	<u>a</u> b	dfrac	<u>a</u> b
rbrace $\{a\}$ rang $\langle a \rangle$ rangle $\langle a \rangle$ lparen $\langle a \rangle$ lbracket $[a]$ lbrack $[a]$ rparen $\langle a \rangle$ rbracket $[a]$ rpipe $ a $ lpipe $ a $ abs $ a $ norm $ a $ openBoth $ a,b $ closed $[a,b]$ openLeft $ a,b $ openRight $[a,b]$ openleft $(a,b]$ openright $[a,b]$ openBoth $[a,b]$ openright $[a,b]$ openBoth $[a,b]$ openleft $[a,b]$ openBoth $[a,b]$	frac	<u>a</u> b	over	<u>a</u> b	√	\sqrt{a}	sqrt	\sqrt{a}
$ \begin{array}{c ccccccccccccccccccccccccccccccccccc$	nthroot	$\sqrt[a]{b}$	lbrace	{ <i>a</i> }	lang	$\langle a \rangle$	langle	$\langle a \rangle$
rbrack [a] rpipe a lpipe a abs a norm $ a $ openBoth a , b closed a , b openLeft a , b openRight $[a,b]$ openleft $[a,b]$ openright $[a,b]$ openBoth $[a,b]$ openright $[a,b]$ openboth	rbrace	{ <i>a</i> }	rang	$\langle a \rangle$	rangle	$\langle a \rangle$	lparen	(a)
norm $\ a\ $ openBoth a , b closed a , b openLeft a , b openRight a , b openRight a , b openleft a , b openright a , b openBoth a , a openright a , b openboth a , a openRight a , b openBoth a openright a , b openboth a , a openright a openboth a , a openright a openboth a open a openright a openboth a openboth a open a o	lbracket	[<i>a</i>]	lbrack	[<i>a</i>]	rparen	(a)	rbracket	[<i>a</i>]
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	rbrack	[a]	rpipe	a	lpipe	a	abs	a
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	norm	a	openBoth	a, b	closed	[a,b]	openLeft	[a,b]
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	openRight	[a, b[openleft		openright	[a,b)	openboth	
BigSum $\sum c$ a Sum $\sum c$ a BigProd a $\prod c$ a Prod $\prod c$ a textmd a textup a textrm a textnormal a text a textsl a textit a emph a italics a italic a em a textbf a bold a strong a textsf a sf a bold a strong a textsf a sf a bold a strong a textsf a sf a textttt a tt a textsc A uppercase A lowercase a binomial $\binom{a}{b}$ binom $\binom{a}{b}$ choose $\binom{a}{b}$ cases $\binom{a}{b}$ case $\binom{a}{b}$ determ $ a $ matrix (a) vector a editable \boxed{a} f f prime r @ undefined	Integral	$\int c d$	Int	$\int_{C} d$	IntegralSubst	/c	Intsubst	$\begin{pmatrix} b \\ /c \end{pmatrix}$
text a textsl a textit a emph a italics a italic a em a textbf a bold a strong a textsf a sf a texttt a tt a textsc A uppercase A lowercase a binomial $\begin{pmatrix} a \\ b \end{pmatrix}$ binom $\begin{pmatrix} a \\ b \end{pmatrix}$ choose $\begin{pmatrix} a \\ b \end{pmatrix}$ cases $\begin{pmatrix} a \\ b \end{pmatrix}$ case $\begin{pmatrix} a \\ b \end{pmatrix}$ determ $\begin{vmatrix} a \\ b \end{vmatrix}$ matrix $\begin{pmatrix} a \\ b \end{pmatrix}$ vector a editable $\begin{vmatrix} a \\ b \end{vmatrix}$ f f prime $\begin{pmatrix} a \\ b \end{pmatrix}$ omega $\langle a \rangle$ psi $\langle a \rangle$ chi $\langle a \rangle$ tau $\langle a \rangle$ sigma $\langle a \rangle$ rho $\langle a \rangle$ iota $\langle a \rangle$ theta $\langle a \rangle$ delta $\langle a \rangle$ gamma $\langle a \rangle$ beta $\langle a \rangle$ delta $\langle a \rangle$ gamma $\langle a \rangle$ beta $\langle a \rangle$ sigma $\langle a \rangle$ alpha $\langle a \rangle$ phi $\langle a \rangle$ varsigma $\langle a \rangle$ sigma $\langle a \rangle$ sigma $\langle a \rangle$ sigma $\langle a \rangle$ sigma $\langle a \rangle$ delta $\langle a \rangle$ gamma $\langle a \rangle$ beta $\langle a \rangle$ delta $\langle a \rangle$ gamma $\langle a \rangle$ beta $\langle a \rangle$ sigma $\langle a$	BigSum	$\sum c$	Sum	$\sum c$	BigProd	$\prod c$	Prod	$\prod c$
italics a italic a em a textbf a bold a strong a textsf a sf a texttt a tt a textsc a uppercase a lowercase a binomial a binomial a binom a determ a textsc a uppercase a lowercase a binomial a binom a determ a textsc a uppercase a lowercase a binomial a binom a determ a textsc a uppercase a lowercase a binomial a determ a determ a to a to a determ a determ a determ a lowercase a editable a determ	textmd	а	textup	а	textrm	а	textnormal	а
bold a strong a textsf a sf a texttt a tt a textsc a uppercase a lowercase a binomial a binomial a binom a determ a binomial a determ a determ a editable a f a prime a undefined a sf a determ a editable a f a prime a enditable a f a sigma a of a sigma a enditable a f a sigma a enditable a sigma a enditable a f a sigma a enditable a enditable a sigma a enditable a enditable a sigma a enditable a sigma a enditable a e	text	a	textsl	а	textit	а	emph	а
texttt a tt a textsc A uppercase A lowercase a binomial a binomial a binom a choose a choose a cases a case a determ a matrix a textsc a uppercase a choose a cases a case a determ a matrix a determ a matrix a vector a editable a f f prime a vector a editable a f f prime a vector a undefined a such a tau a sigma a or a sigma a vector a tau a sigma a vector a iota a theta a eta a phi a deta a phi a verphi a phiv a phi	italics	а	italic	а	em	а	textbf	а
$\begin{array}{c ccccccccccccccccccccccccccccccccccc$	bold	а	strong	а	textsf	а	sf	а
cases $\begin{cases} a \\ b \end{cases} \text{ case} \qquad \begin{cases} a b \\ d \end{cases} \text{ determ} \qquad a \text{ matrix} \qquad (a) \end{cases}$ vector $a \text{ editable} \qquad \boxed{a} \text{ f} \qquad f \text{ prime} \qquad '$ $\boxed{a} \text{ undefined} & & & & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ & & & & \\ &$	texttt	а	tt	а	textsc	A	uppercase	A
case { a b determ a matrix (a) vector a editable a f a prime b prime b omega a omega a undefined a undefined a with tau a sigma a omega	lowercase	а	binomial		binom		choose	
α undefined & & % % omega α psi ψ chi χ tau τ sigma σ rho ρ xi ξ nu ν mu μ kappa κ iota ι theta θ eta η zeta ζ delta δ gamma γ beta β alpha α phi ϕ varphi φ phiv φ epsilon ϵ varepsilon ϵ epsiv ϵ varpi ϖ piv ϖ varsigma ς sigmav ς sigmaf ς thetasym ϑ vartheta ϑ thetav ϑ upsi υ upsilon υ digamma \digamma Gammad \digamma gammad \digamma varkappa \varkappa kappav \varkappa varrho ϱ rhov ϱ	cases		case	{ a b	determ	<i>a</i>	matrix	(a)
psi ψ chi χ tau τ sigma σ rho ρ xi ξ nu ν mu μ kappa κ iota ι theta θ eta η zeta ξ delta δ gamma γ beta β alpha α phi ϕ varphi ϕ phiv ϕ epsilon ϵ varepsilon ϵ epsiv ϵ varpi ϵ varpi ϵ piv ϵ varsigma ϵ sigmav ϵ sigmaf ϵ thetasym ϵ varheta ϵ thetav ϵ upsi ϵ varkappa ϵ kappav ϵ varrho ϵ rhov ϵ	vector	а	editable	a	f	f	prime	,
rho ρ xi ξ nu ν mu μ kappa κ iota ι theta θ eta η zeta ζ delta δ gamma γ beta β alpha α phi ϕ varphi φ phiv φ epsilon ϵ varepsilon ϵ epsiv ϵ varpi ϵ varpi ϵ varpi ϵ varpi ϵ varpi ϵ varpi ϵ thetasym ϵ varbeta ϵ thetav ϵ upsi ϵ varkappa ϵ kappav ϵ varbo ϵ rhov ϵ	<u>@</u>	undefined	&	&	%	%	omega	ω
kappa κ iota l theta θ eta η zeta ζ delta δ gamma γ beta β alpha α phi ϕ varphi φ phiv φ epsilon ϵ varepsilon ϵ epsiv ϵ varpi ϖ piv ϖ varsigma ς sigmav ς sigmaf ς thetasym g vartheta g thetav g upsi g upsilon g digamma g gammad g varkappa g kappav g varrho g rhov g	psi	Ψ	chi	χ	tau	τ	sigma	σ
kappa κ iota ι theta θ eta η zeta ζ delta δ gamma γ beta β alpha α phi ϕ varphi φ phiv φ epsilon ϵ varepsilon ϵ epsiv ϵ varpi ϖ piv ϖ varsigma ς sigmav ς sigmaf ς thetasym g vartheta g thetav g upsi g upsilon g digamma g gammad g varkappa g kappav g varrho g rhov g	rho	ρ	xi	ξ	nu	ν	mu	μ
alpha α phi ϕ varphi φ phiv φ epsilon ϵ varepsilon ϵ epsiv ϵ varpi ϖ piv ϖ varsigma ς sigmav ς sigmaf ς thetasym ϑ vartheta ϑ thetav ϑ upsi υ upsilon υ digamma F Gammad F gammad F varkappa \varkappa kappav \varkappa varrho ϱ rhov ϱ	kappa	κ	iota	l	theta	θ	eta	η
alpha α phi ϕ varphi φ phiv φ epsilon ϵ varepsilon ϵ epsiv ϵ varpi ϖ piv ϖ varsigma ς sigmav ς sigmaf ς thetasym ϑ vartheta ϑ thetav ϑ upsi υ upsilon υ digamma F Gammad F gammad F varkappa \varkappa kappav \varkappa varrho ϱ rhov ϱ	zeta	ζ	delta	δ	gamma	γ	beta	β
epsilon ϵ varepsilon ϵ epsiv ϵ varpi ϖ piv ϖ varsigma ς sigmav ς sigmaf ς thetasym ϑ vartheta ϑ thetav ϑ upsi υ upsilon υ digamma F Gammad F gammad F varkappa \varkappa kappav \varkappa varrho ϱ rhov ϱ	alpha	α	phi	φ	varphi	φ	phiv	
thetasym g vartheta g thetav g upsi v upsilon v digamma g Gammad g gammad g varkappa g kappav g varrho g rhov g	epsilon	ϵ	varepsilon	-	epsiv		varpi	
thetasym g vartheta g thetav g upsi v upsilon v digamma g Gammad g gammad g varkappa g kappav g varrho g rhov g	piv	$\overline{\sigma}$	-		sigmav	ς	-	ς
varkappa \varkappa kappav \varkappa varrho ϱ rhov ϱ	thetasym	Э	vartheta					
varkappa \varkappa kappav \varkappa varrho ϱ rhov ϱ	upsilon	υ	digamma	F	Gammad	F	gammad	F
		ж	kappav		varrho	-	rhov	
	π	π	pi	π	lambda		Upsih	

command output command output command output

upsih	Υ	Upsi	Υ	Upsilon	Υ	forall	Α
Omega	Ω	Psi	Ψ	Phi	Φ	Sigma	Σ
Pi	П	Xi	[1]	Lambda	Λ	Theta	Θ
Delta	Δ	Gamma	Γ	+	+	-	_
_	_	plusminus	土	plusmn	±	pm	±
±	±	minusplus	Ŧ	mnplus	Ŧ	mp	Ŧ
cdot	•	sdot	•	=	=	lt	<
gt	>	otimes	8	oplus	Ф	equiv	=
cong	≅	sim	~	notin	∉	times	×
divides	÷	divide	÷	div	÷	÷	÷
neq	#	ne	#	≠	<i>≠</i>	lowast	*
loast	*	star	*	ast	*	therefore	:.
therefor	:.	because	::	cuz	::	propto	α
prop	α.	approx	\approx	asymp	\approx	æ	\approx
<	<	>	>	leq	<u> </u>	le	<u> </u>
<	<u> </u>	geq	<u> </u>	ge	>	≥	<u>></u>
in	€	isin	€	contains	€	ni	€
doesnotcontain	∌	notcontains	∌	niton	∌	notni	∌
subset	C	sub	C	superset)	supset)
sup	D	notsubset	⊄	nsubset	⊄	notsub	⊄
nsub	⊄	notsuperset	⊅	nsuperset	⊅	notsupset	⊅
nsupset	⊅	notsup	⊅	nsup	⊅	subseteq	⊆
subsete	⊆	subeq	⊆	sube	⊆	superseteq	⊇
supersete	⊇	supseteq	⊇	supsete	⊇	supeq	⊇
supe	⊇	notsubseteq	⊈	notsubsete	⊈	nsubseteq	⊈
nsubsete	⊈	notsubeq	⊈	notsube	⊈	nsubeq	⊈
nsube	⊈	notsuperseteq	⊉	notsupersete	⊉	nsuperseteq	⊉
nsupersete	⊉	notsupseteq	⊉	notsupsete	⊉	nsupseteq	⊉
nsupsete	⊉	notsupeq	⊉	notsupe	⊉	nsupeq	⊉
nsupe	⊉	summation	\sum	sum	\sum	Σ	\sum
product	$\overline{\prod}$	prod	$\overline{\Pi}$	П	$\overline{\prod}$	coproduct	
coprod		integral		int	\int	ſ	\int
Naturals	N	naturals	N	N	N	Probability	P
probability	P	Projective	\mathbb{P}	projective	\mathbb{P}	Primes	P
primes	P	P	\mathbb{P}	Integers	\mathbb{Z}	integers	\mathbb{Z}

command	output	command	output	command	output	command	output
Z	Z	Rationals	Q	rationals	-	Q	Q
Reals	\mathbb{R}	reals	\mathbb{R}	R	\mathbb{R}	ComplexPlane	C
Complexplane	C	complexplane	C	Complexes	C	complexes	C
Complex	C	complex	C	С	C	Quaternions	Н
quaternions	Н	Hamiltonian	Н	Н	Н	NN	N
PP	P	ZZ	Z	QQ	Q	RR	\mathbb{R}
CC	C	НН	Н	AA	Å	BB	\mathbb{B}
DD	\mathbb{D}	EE	E	FF	F	GG	G
II	I	JJ	J	KK	K	LL	L
MM	M	OO	0	SS	S	TT	T
UU	U	VV	\mathbb{V}	XX	W	YY	X
emsp		quad		qquad		,	,
:	:	;	;	diamond	\Q	bigtriangleup	Δ
ominus	θ	uplus	₩	bigtriangledown	∇	sqcap	П
triangleleft	٥	sqcup		triangleright	٥	odot	0
bigcirc	0	dagger	†	ddagger	‡	wr	1
amalg	Ш	models	=	prec		succ	>
preceq	≼	succeq	≽	simeq	21	mid	
11	«	gg	>>	parallel	I	nparallel	ł
bowtie	M	sqsubset		sqsupset		smile	(
sqsubseteq	⊑	sqsupseteq	П	doteq	÷	frown)
vdash	F	dashv	7	Vdash	⊩	nmid	ł
square		longleftarrow	†	longrightarrow	\rightarrow	Longleftarrow	1
Longrightarrow	\Rightarrow	longleftrightarrow	\leftrightarrow	updownarrow	1	Longleftrightarrow	\$
Updownarrow	1	mapsto	\rightarrow	nearrow	7	hookleftarrow	Ţ
hookrightarrow	\hookrightarrow	searrow	7	leftharpoonup	_	rightharpoonup	
swarrow	L	leftharpoondown	1	rightharpoondown	_	nwarrow	ζ.
ldots		cdots	•••	vdots	:	ddots	••
surd	1	triangle	Δ	ell	Ł	top	Т
flat	Ь	natural	н	sharp	#	wp	B
bot		clubsuit	*	diamondsuit	♦	heartsuit	S
spadesuit	•	oint	∮	bigcap	\cap	bigcup	C
bigsqcup	Ц	bigvee	V	bigwedge	٨	bigodot	0
bigotimes	8	bigoplus	Ф	biguplus	₩	lfloor	L
rfloor		lceil	Γ	rceil	٦	slash	/

command	output	command	output	command	output	command	output
opencurlybrace	{	closecurlybrace	}	caret	^	underscore	_
backslash	\	vert		perpendicular		perp	Т
del	∇	nabla	∇	hbar	ħ	angstrom	Å
Angstrom	Å	circle	0	circ	0	ring	0
bullet	•	bull	•	smallsetminus	\	setminus	\
neg			Г	not		hellipsis	• • •
ellipsis	•••	hellip	•••	ellip	•••	dots	• • •
	•••	downarrow	\downarrow	dnarrow	↓ ↓	dnarr	\downarrow
darr	1	converges	\downarrow	Downarrow	₩	dnArrow	₩
dnArr	. ↓	dArr	U	uparrow	1	uarr	<u></u>
diverges	1	Uparrow	1	uArr	1	to	\rightarrow
rightarrow	\rightarrow	rarr	\rightarrow	implies	\Rightarrow	Rightarrow	⇒
rArr	\Rightarrow	gets	\leftarrow	leftarrow	←	larr	←
impliedby	←	Leftarrow	⊭	lArr	←	leftrightarrow	\longleftrightarrow
lrarr	\leftrightarrow	harr	\leftrightarrow	iff	⇔	Leftrightarrow	⇔
lrArr	⇔	hArr	⇔	real	\Re	Real	\Re
Re	\Re	Imaginary	9	imaginary	9	imagin	9
image	9	imag	9	Im	9	partial	∂
part	ð	infinity	∞	infty	∞	infin	∞
inf	∞	alephsym	א	aleph	א	alefsym	א
alef	א	exists	3	exist	3	xists	Е
xist	3	wedge	٨	land	٨	and	٨
vee	V	lor	V	or	V	varnothing	Ø
nothing	Ø	Oslash	Ø	oslash	Ø	emptyset	Ø
empty	Ø	О	Ø	o	Ø	union	U
cup	U	intersection	\cap	intersect	\cap	cap	\cap
degree	0	deg	0	angle		ang	
lim	lim	hcf	hcf	gcf	gcf	gcd	gcd
lcm	lcm	mod	mod	max	max	min	min
dim	dim	det	det	proj	proj	span	span
log	log	lg	lg	ln	ln	arcsinh	arcsinh
asinh	asinh	arcsin	arcsin	asin	asin	sinh	sinh
sin	sin	arccosh	arccosh	acosh	acosh	arccos	arccos
acos	acos	cosh	cosh	cos	cos	arctanh	arctanh
atanh	atanh	arctan	arctan	atan	atan	tanh	tanh

command output command output command output command output

tan	tan	arcsech	arcsech	asech	asech	arcsec	arcsec
asec	asec	sech	sech	sec	sec	arccosech	arccosech
acosech	acosech	arccosec	arccosec	acosec	acosec	cosech	cosech
cosec	cosec	arccsch	arccsch	acsch	acsch	arccsc	arcese
acsc	acsc	csch	csch	csc	csc	arccotanh	arccotanh
acotanh	acotanh	arccotan	arccotan	acotan	acotan	cotanh	cotanh
cotan	cotan	arccoth	arccoth	acoth	acoth	arccot	arccot
acot	acot	coth	coth	cot	cot		