NOTE: some completions omitted for clarity and simplicity.

env open	beg	group	gr	for any	fy	{$1}	bs
env theorem	th	basis	bs	there exists	tx	*env* emph	em
env proof	pf	finite	fn	with respect to	wrt	*math* text	tt
env proposition	pr	dimensional	dl	homomorphism	hm	*math* ceil	ceil
env lemma	lm	irreducible	ir	linear	lr	*math* floor	floor
env corollary	cr	representation	rp	isomorphism	ip	*math* pmat	pmat
env defn	df	invariant	iv	conjugacy	cj	*math* bmat	bmat
env fact	ft	generated	gd	*env* inline math	mk	{$1}	set
env example	ex	let $1 be a	lt	*env* display math	dm d.m d,m	($1)	()
env remark	rm	abelian	abe	*env* align	ali	|$1|	lr|
env problem	pb	i.e.	ie	*math* box	box	{$1}	lr{
env solution	so	s.t.	st	*math* cases	case	[$1]	lr[
env digression	dg	subgroup	sg	*math* underbrace	udbr	⟨$1⟩	lra
env enumerate	en	space	sv	$1 : $2 → $3	fun	\ldots	...
env itemize	il	subspace	sb	*math* function	fn	*math* mathcal	mcal
\item	it	vector	vc	$\{\$1_i\}$	ibs	*math* mathbb	mbb
env description	desc	vector space	vs	$\{\$1_j\}$	jbs	*math* mathfrak	mfrak

math greeks	⟨name⟩	A^*	dl	$\setminus$	\\\
λ	eig	A^{**}	ddl	$\gg$	>>
ϕ	vphi	*math* bar	⟨smart⟩	$\ll$	<<
σ	sig	*math* hat	⟨smart⟩	$\mid$	——
∞	ooo	$\times$	xx	$\leq$	<=
math sets	2x⟨letter⟩	.	**	$\geq$	>=
$\hat{2}$	sr	$\lvert x \rvert$	norm	&= $1 \\	==
$\hat{3}$	cb	$\otimes$	@	$\neq$	!=
$\hat{\{\$1\}}$	td rd	$\oplus$	op	$\sim$	~~
$\_\{\$1\}$	__	$\notin$	notin	$\cong$	=
_i	ii	$\in$	in	$\rightarrow$	->
_j	jj	$\cap$	Nn	$\hookrightarrow$	i>
_k	kk	$\cup$	Uu	$\twoheadrightarrow$	s>
$\overline{x}$	conj	$\subset$	cc	$\xrightarrow{x}$	x>
A^{-1}	–1	$\subseteq$	c=c	$\leftrightarrow$	<->
A^c	cl	$\triangleleft$	<]	$\Longrightarrow$	=>
$A^\perp$	pr	$\trianglelefteq$	<!	$\Longleftarrow$	=<
A^t	–t	$\rtimes$	x!	$\Longleftrightarrow$	iff

math fraction	//
math functions	⟨name⟩
$\sqrt{x}$	sq
$a_1, \ldots, a_n$	lv
$a_1 + \ldots + a_n$	ls
$\bigcup$	uuu
$\bigcap$	nnn
$\sum$	sum
$\prod$	prod
math limits, derivs	⟨name⟩
$\bigoplus$	bop
$\bigotimes$	b@