APPENDIX

B

Math symbol tables

B.1 Hebrew and Greek letters

Hebrew letters

Type	Typeset
`\aleph`	ℵ
`\beth`	ℶ
`\daleth`	ℸ
`\gimel`	ℷ

Greek letters

Lowercase

Type	Typeset	Type	Typeset	Type	Typeset
\alpha	α	\iota	ι	\sigma	σ
\beta	β	\kappa	κ	\tau	τ
\gamma	γ	\lambda	λ	\upsilon	υ
\delta	δ	\mu	μ	\phi	ϕ
\epsilon	ϵ	\nu	ν	\chi	χ
\zeta	ζ	\xi	ξ	\psi	ψ
\eta	η	\pi	π	\omega	ω
\theta	θ	\rho	ρ		
\varepsilon	ε	\varpi	ϖ	\varsigma	ς
\vartheta	ϑ	\varrho	ϱ	\varphi	φ
	\digamma	$\digamma$	\varkappa	$\varkappa$	

Uppercase

Type	Typeset	Type	Typeset	Type	Typeset
\Gamma	Γ	\Xi	Ξ	\Phi	Φ
\Delta	Δ	\Pi	Π	\Psi	Ψ
\Theta	Θ	\Sigma	Σ	\Omega	Ω
\Lambda	Λ	\Upsilon	Υ		
\varGamma	$\varGamma$	\varXi	$\varXi$	\varPhi	$\varPhi$
\varDelta	$\varDelta$	\varPi	$\varPi$	\varPsi	$\varPsi$
\varTheta	$\varTheta$	\varSigma	$\varSigma$	\varOmega	$\varOmega$
\varLambda	$\varLambda$	\varUpsilon	$\varUpsilon$		

B.2 Binary relations

Type	Typeset	Type	Typeset
`<`	$<$	`>`	$>$
`=`	$=$	`:`	$:$
`\in`	$\in$	`\ni` or `\owns`	$\ni$
`\leq` or `\le`	$\leq$	`\geq` or `\ge`	$\geq$
`\ll`	$\ll$	`\gg`	$\gg$
`\prec`	$\prec$	`\succ`	$\succ$
`\preceq`	$\preceq$	`\succeq`	$\succeq$
`\sim`	$\sim$	`\approx`	$\approx$
`\simeq`	$\simeq$	`\cong`	$\cong$
`\equiv`	$\equiv$	`\doteq`	$\doteq$
`\subset`	$\subset$	`\supset`	$\supset$
`\subseteq`	$\subseteq$	`\supseteq`	$\supseteq$
`\sqsubseteq`	$\sqsubseteq$	`\sqsupseteq`	$\sqsupseteq$
`\smile`	$\smile$	`\frown`	$\frown$
`\perp`	$\perp$	`\models`	$\models$
`\mid`	$\mid$	`\parallel`	$\parallel$
`\vdash`	$\vdash$	`\dashv`	$\dashv$
`\propto`	$\propto$	`\asymp`	$\asymp$
`\bowtie`	$\bowtie$		
`\sqsubset`	$\sqsubset$	`\sqsupset`	$\sqsupset$
`\Join`	$\Join$		

Note the `\colon` command used in $f\colon x \to x^2$, typed as

```
f \colon x \to x^2
```

More binary relations

Type	Typeset	Type	Typeset
\leqq	$\leqq$	\geqq	$\geqq$
\leqslant	$\leqslant$	\geqslant	$\geqslant$
\eqslantless	$\eqslantless$	\eqslantgtr	$\eqslantgtr$
\lesssim	$\lesssim$	\gtrsim	$\gtrsim$
\lessapprox	$\lessapprox$	\gtrapprox	$\gtrapprox$
\approxeq	$\approxeq$		
\lessdot	$\lessdot$	\gtrdot	$\gtrdot$
\lll	$\lll$	\ggg	$\ggg$
\lessgtr	$\lessgtr$	\gtrless	$\gtrless$
\lesseqgtr	$\lesseqgtr$	\gtreqless	$\gtreqless$
\lesseqqgtr	$\lesseqqgtr$	\gtreqqless	$\gtreqqless$
\doteqdot	$\doteqdot$	\eqcirc	$\eqcirc$
\circeq	$\circeq$	\triangleq	$\triangleq$
\risingdotseq	$\risingdotseq$	\fallingdotseq	$\fallingdotseq$
\backsim	$\backsim$	\thicksim	$\thicksim$
\backsimeq	$\backsimeq$	\thickapprox	$\thickapprox$
\preccurlyeq	$\preccurlyeq$	\succcurlyeq	$\succcurlyeq$
\curlyeqprec	$\curlyeqprec$	\curlyeqsucc	$\curlyeqsucc$
\precsim	$\precsim$	\succsim	$\succsim$
\precapprox	$\precapprox$	\succapprox	$\succapprox$
\subseteqq	$\subseteqq$	\supseteqq	$\supseteqq$
\Subset	$\Subset$	\Supset	$\Supset$
\vartriangleleft	$\vartriangleleft$	\vartriangleright	$\vartriangleright$
\trianglelefteq	$\trianglelefteq$	\trianglerighteq	$\trianglerighteq$
\vDash	$\vDash$	\Vdash	$\Vdash$
\Vvdash	$\Vvdash$		
\smallsmile	$\smallsmile$	\smallfrown	$\smallfrown$
\shortmid	$\shortmid$	\shortparallel	$\shortparallel$
\bumpeq	$\bumpeq$	\Bumpeq	$\Bumpeq$
\between	$\between$	\pitchfork	$\pitchfork$
\varpropto	$\varpropto$	\backepsilon	$\backepsilon$
\blacktriangleleft	$\blacktriangleleft$	\blacktriangleright	$\blacktriangleright$
\therefore	$\therefore$	\because	$\because$

Negated binary relations

Type	Typeset	Type	Typeset
`\neq` or `\ne`	$\neq$	`\notin`	$\notin$
`\nless`	$\nless$	`\ngtr`	$\ngtr$
`\nleq`	$\nleq$	`\ngeq`	$\ngeq$
`\nleqslant`	$\nleqslant$	`\ngeqslant`	$\ngeqslant$
`\nleqq`	$\nleqq$	`\ngeqq`	$\ngeqq$
`\lneq`	$\lneq$	`\gneq`	$\gneq$
`\lneqq`	$\lneqq$	`\gneqq`	$\gneqq$
`\lvertneqq`	$\lvertneqq$	`\gvertneqq`	$\gvertneqq$
`\lnsim`	$\lnsim$	`\gnsim`	$\gnsim$
`\lnapprox`	$\lnapprox$	`\gnapprox`	$\gnapprox$
`\nprec`	$\nprec$	`\nsucc`	$\nsucc$
`\npreceq`	$\npreceq$	`\nsucceq`	$\nsucceq$
`\precneqq`	$\precneqq$	`\succneqq`	$\succneqq$
`\precnsim`	$\precnsim$	`\succnsim`	$\succnsim$
`\precnapprox`	$\precnapprox$	`\succnapprox`	$\succnapprox$
`\nsim`	$\nsim$	`\ncong`	$\ncong$
`\nshortmid`	$\nshortmid$	`\nshortparallel`	$\nshortparallel$
`\nmid`	$\nmid$	`\nparallel`	$\nparallel$
`\nvdash`	$\nvdash$	`\nvDash`	$\nvDash$
`\nVdash`	$\nVdash$	`\nVDash`	$\nVDash$
`\ntriangleleft`	$\ntriangleleft$	`\ntriangleright`	$\ntriangleright$
`\ntrianglelefteq`	$\ntrianglelefteq$	`\ntrianglerighteq`	$\ntrianglerighteq$
`\nsubseteq`	$\nsubseteq$	`\nsupseteq`	$\nsupseteq$
`\nsubseteqq`	$\nsubseteqq$	`\nsupseteqq`	$\nsupseteqq$
`\subsetneq`	$\subsetneq$	`\supsetneq`	$\supsetneq$
`\varsubsetneq`	$\varsubsetneq$	`\varsupsetneq`	$\varsupsetneq$
`\subsetneqq`	$\subsetneqq$	`\supsetneqq`	$\supsetneqq$
`\varsubsetneqq`	$\varsubsetneqq$	`\varsupsetneqq`	$\varsupsetneqq$

B.3 Binary operations

Type	Typeset	Type	Typeset
`+`	$+$	`-`	$-$
`\pm`	$\pm$	`\mp`	$\mp$
`\times`	$\times$	`\cdot`	$\cdot$
`\circ`	$\circ$	`\bigcirc`	$\bigcirc$
`\div`	$\div$	`\bmod`	$\bmod$
`\cap`	$\cap$	`\cup`	$\cup$
`\sqcap`	$\sqcap$	`\sqcup`	$\sqcup$
`\wedge` or `\land`	$\wedge$	`\vee` or `\lor`	$\vee$
`\triangleleft`	$\triangleleft$	`\triangleright`	$\triangleright$
`\bigtriangleup`	$\bigtriangleup$	`\bigtriangledown`	$\bigtriangledown$
`\oplus`	$\oplus$	`\ominus`	$\ominus$
`\otimes`	$\otimes$	`\oslash`	$\oslash$
`\odot`	$\odot$	`\bullet`	$\bullet$
`\dagger`	$\dagger$	`\ddagger`	$\ddagger$
`\setminus`	$\setminus$	`\smallsetminus`	$\smallsetminus$
`\wr`	$\wr$	`\amalg`	$\amalg$
`\ast`	$\ast$	`\star`	$\star$
`\diamond`	$\diamond$		
`\lhd`	$\lhd$	`\rhd`	$\rhd$
`\unlhd`	$\unlhd$	`\unrhd`	$\unrhd$
`\dotplus`	$\dotplus$	`\centerdot`	$\centerdot$
`\ltimes`	$\ltimes$	`\rtimes`	$\rtimes$
`\leftthreetimes`	$\leftthreetimes$	`\rightthreetimes`	$\rightthreetimes$
`\circleddash`	$\circleddash$	`\uplus`	$\uplus$
`\barwedge`	$\barwedge$	`\doublebarwedge`	$\doublebarwedge$
`\curlywedge`	$\curlywedge$	`\curlyvee`	$\curlyvee$
`\veebar`	$\veebar$	`\intercal`	$\intercal$
`\doublecap` or `\Cap`	$\Cap$	`\doublecup` or `\Cup`	$\Cup$
`\circledast`	$\circledast$	`\circledcirc`	$\circledcirc$
`\boxminus`	$\boxminus$	`\boxtimes`	$\boxtimes$
`\boxdot`	$\boxdot$	`\boxplus`	$\boxplus$
`\divideontimes`	$\divideontimes$	`\vartriangle`	$\vartriangle$
`\And`	$\And$		

B.4 Arrows

Type	Typeset	Type	Typeset
`\leftarrow`	$\leftarrow$	`\rightarrow` or `\to`	$\rightarrow$
`\longleftarrow`	$\longleftarrow$	`\longrightarrow`	$\longrightarrow$
`\Leftarrow`	$\Leftarrow$	`\Rightarrow`	$\Rightarrow$
`\Longleftarrow`	$\Longleftarrow$	`\Longrightarrow`	$\Longrightarrow$
`\leftrightarrow`	$\leftrightarrow$	`\longleftrightarrow`	$\longleftrightarrow$
`\Leftrightarrow`	$\Leftrightarrow$	`\Longleftrightarrow`	$\Longleftrightarrow$
`\uparrow`	$\uparrow$	`\downarrow`	$\downarrow$
`\Uparrow`	$\Uparrow$	`\Downarrow`	$\Downarrow$
`\updownarrow`	$\updownarrow$	`\Updownarrow`	$\Updownarrow$
`\nearrow`	$\nearrow$	`\searrow`	$\searrow$
`\swarrow`	$\swarrow$	`\nwarrow`	$\nwarrow$
`\iff`	$\iff$	`\mapstochar`	$\mapstochar$
`\mapsto`	$\mapsto$	`\longmapsto`	$\longmapsto$
`\hookleftarrow`	$\hookleftarrow$	`\hookrightarrow`	$\hookrightarrow$
`\leftharpoonup`	$\leftharpoonup$	`\rightharpoonup`	$\rightharpoonup$
`\leftharpoondown`	$\leftharpoondown$	`\rightharpoondown`	$\rightharpoondown$
`\leadsto`	$\leadsto$		
`\leftleftarrows`	$\leftleftarrows$	`\rightrightarrows`	$\rightrightarrows$
`\leftrightarrows`	$\leftrightarrows$	`\rightleftarrows`	$\rightleftarrows$
`\Lleftarrow`	$\Lleftarrow$	`\Rrightarrow`	$\Rrightarrow$
`\twoheadleftarrow`	$\twoheadleftarrow$	`\twoheadrightarrow`	$\twoheadrightarrow$
`\leftarrowtail`	$\leftarrowtail$	`\rightarrowtail`	$\rightarrowtail$
`\looparrowleft`	$\looparrowleft$	`\looparrowright`	$\looparrowright$
`\upuparrows`	$\upuparrows$	`\downdownarrows`	$\downdownarrows$
`\upharpoonleft`	$\upharpoonleft$	`\upharpoonright`	$\upharpoonright$
`\downharpoonleft`	$\downharpoonleft$	`\downharpoonright`	$\downharpoonright$
`\leftrightsquigarrow`	$\leftrightsquigarrow$	`\rightsquigarrow`	$\rightsquigarrow$
`\multimap`	$\multimap$		
`\nleftarrow`	$\nleftarrow$	`\nrightarrow`	$\nrightarrow$
`\nLeftarrow`	$\nLeftarrow$	`\nRightarrow`	$\nRightarrow$
`\nleftrightarrow`	$\nleftrightarrow$	`\nLeftrightarrow`	$\nLeftrightarrow$
`\dashleftarrow`	$\dashleftarrow$	`\dashrightarrow`	$\dashrightarrow$
`\curvearrowleft`	$\curvearrowleft$	`\curvearrowright`	$\curvearrowright$
`\circlearrowleft`	$\circlearrowleft$	`\circlearrowright`	$\circlearrowright$
`\leftrightharpoons`	$\leftrightharpoons$	`\rightleftharpoons`	$\rightleftharpoons$
`\Lsh`	$\Lsh$	`\Rsh`	$\Rsh$

B.5 Miscellaneous symbols

Type	Typeset	Type	Typeset
`\hbar`	$\hbar$	`\ell`	ℓ
`\imath`	$\imath$	`\jmath`	$\jmath$
`\wp`	$\wp$	`\partial`	∂
`\Im`	$\Im$	`\Re`	$\Re$
`\infty`	∞	`\prime`	$\prime$
`\emptyset`	$\emptyset$	`\varnothing`	$\varnothing$
`\forall`	$\forall$	`\exists`	$\exists$
`\smallint`	$\smallint$	`\triangle`	$\triangle$
`\top`	$\top$	`\bot`	$\bot$
`\P`	$\P$	`\S`	$\S$
`\dag`	$\dagger$	`\ddag`	$\ddagger$
`\flat`	$\flat$	`\natural`	$\natural$
`\sharp`	$\sharp$	`\angle`	$\angle$
`\clubsuit`	$\clubsuit$	`\diamondsuit`	$\diamondsuit$
`\heartsuit`	$\heartsuit$	`\spadesuit`	$\spadesuit$
`\surd`	$\surd$	`\nabla`	∇
`\pounds`	$\pounds$	`\neg` or `\lnot`	$\neg$
`\Box`	$\Box$	`\Diamond`	$\Diamond$
`\mho`	$\mho$		
`\hslash`	$\hslash$	`\complement`	$\complement$
`\backprime`	$\backprime$	`\nexists`	$\nexists$
`\Bbbk`	$\Bbbk$		
`\diagup`	$\diagup$	`\diagdown`	$\diagdown$
`\blacktriangle`	$\blacktriangle$	`\blacktriangledown`	$\blacktriangledown$
`\triangledown`	$\triangledown$	`\eth`	$\eth$
`\square`	$\square$	`\blacksquare`	$\blacksquare$
`\lozenge`	$\lozenge$	`\blacklozenge`	$\blacklozenge$
`\measuredangle`	$\measuredangle$	`\sphericalangle`	$\sphericalangle$
`\circledS`	$\circledS$	`\bigstar`	$\bigstar$
`\Finv`	$\Finv$	`\Game`	$\Game$

B.6 Delimiters

Name	Type	Typeset
left parenthesis	`(`	(
right parenthesis	`)`	)
left bracket	`[` or `\lbrack`	[
right bracket	`]` or `\rbrack`	]
left brace	`\{` or `\lbrace`	{
right brace	`\}` or `\rbrace`	}
backslash	`\backslash`	\
forward slash	`/`	/
left angle bracket	`\langle`	⟨
right angle bracket	`\rangle`	⟩
vertical line	`|` or `\vert`	|
double vertical line	`\\|` or `\Vert`	‖
left floor	`\lfloor`	⌊
right floor	`\rfloor`	⌋
left ceiling	`\lceil`	⌈
right ceiling	`\rceil`	⌉
upward	`\uparrow`	↑
double upward	`\Uparrow`	⇑
downward	`\downarrow`	↓
double downward	`\Downarrow`	⇓
up-and-down	`\updownarrow`	↕
double up-and-down	`\Updownarrow`	⇕
upper-left corner	`\ulcorner`	⌜
upper-right corner	`\urcorner`	⌝
lower-left corner	`\llcorner`	⌞
lower-right corner	`\lrcorner`	⌟

B.7 Operators

"Pure" operators, with no limits

Type	Typeset	Type	Typeset	Type	Typeset	Type	Typeset
`\arccos`	arccos	`\cot`	cot	`\hom`	hom	`\sin`	sin
`\arcsin`	arcsin	`\coth`	coth	`\ker`	ker	`\sinh`	sinh
`\arctan`	arctan	`\csc`	csc	`\lg`	lg	`\tan`	tan
`\arg`	arg	`\deg`	deg	`\ln`	ln	`\tanh`	tanh
`\cos`	cos	`\dim`	dim	`\log`	log		
`\cosh`	cosh	`\exp`	exp	`\sec`	sec		

Operators with limits

Type	Typeset	Type	Typeset
`\det`	det	`\limsup`	lim sup
`\gcd`	gcd	`\max`	max
`\inf`	inf	`\min`	min
`\lim`	lim	`\Pr`	Pr
`\liminf`	lim inf	`\sup`	sup
`\injlim`	inj lim	`\projlim`	proj lim
`\varliminf`	$\underline{\lim}$	`\varlimsup`	$\overline{\lim}$
`\varinjlim`	$\varinjlim$	`\varprojlim`	$\varprojlim$

B.7.1 Large operators

Type	Inline	Displayed
`\int_{a}^{b}`	$\int_a^b$	$\displaystyle\int_a^b$
`\oint_{a}^{b}`	$\oint_a^b$	$\displaystyle\oint_a^b$
`\oint_{a}^{b}`	$\iint_a^b$	$\displaystyle\iint_a^b$
`\oint_{a}^{b}`	$\iiint_a^b$	$\displaystyle\iiint_a^b$
`\oint_{a}^{b}`	$\iiiint_a^b$	$\displaystyle\iiiint_a^b$
`\oint_{a}^{b}`	$\int\cdots\int_a^b$	$\displaystyle\int\cdots\int_a^b$
`\prod_{i=1}^{n}`	$\prod_{i=1}^{n}$	$\displaystyle\prod_{i=1}^{n}$
`\coprod_{i=1}^{n}`	$\coprod_{i=1}^{n}$	$\displaystyle\coprod_{i=1}^{n}$
`\bigcap_{i=1}^{n}`	$\bigcap_{i=1}^{n}$	$\displaystyle\bigcap_{i=1}^{n}$
`\bigcup_{i=1}^{n}`	$\bigcup_{i=1}^{n}$	$\displaystyle\bigcup_{i=1}^{n}$
`\bigwedge_{i=1}^{n}`	$\bigwedge_{i=1}^{n}$	$\displaystyle\bigwedge_{i=1}^{n}$
`\bigvee_{i=1}^{n}`	$\bigvee_{i=1}^{n}$	$\displaystyle\bigvee_{i=1}^{n}$
`\bigsqcup_{i=1}^{n}`	$\bigsqcup_{i=1}^{n}$	$\displaystyle\bigsqcup_{i=1}^{n}$
`\biguplus_{i=1}^{n}`	$\biguplus_{i=1}^{n}$	$\displaystyle\biguplus_{i=1}^{n}$
`\bigotimes_{i=1}^{n}`	$\bigotimes_{i=1}^{n}$	$\displaystyle\bigotimes_{i=1}^{n}$
`\bigoplus_{i=1}^{n}`	$\bigoplus_{i=1}^{n}$	$\displaystyle\bigoplus_{i=1}^{n}$
`\bigodot_{i=1}^{n}`	$\bigodot_{i=1}^{n}$	$\displaystyle\bigodot_{i=1}^{n}$
`\sum_{i=1}^{n}`	$\sum_{i=1}^{n}$	$\displaystyle\sum_{i=1}^{n}$

B.8 Math accents and fonts

Math accents

		amsxtra	
Type	Typeset	Type	Typeset
`\acute{a}`	$\acute{a}$		
`\bar{a}`	$\bar{a}$		
`\breve{a}`	$\breve{a}$	`\spbreve`	$\breve{}$
`\check{a}`	$\check{a}$	`\spcheck`	$\check{}$
`\dot{a}`	$\dot{a}$	`\spdot`	$\dot{}$
`\ddot{a}`	$\ddot{a}$	`\spddot`	$\ddot{}$
`\dddot{a}`	$\dddot{a}$	`\spdddot`	$\dddot{}$
`\ddddot{a}`	$\ddddot{a}$		
`\grave{a}`	$\grave{a}$		
`\hat{a}`	$\hat{a}$		
`\widehat{a}`	$\widehat{a}$	`\sphat`	$\hat{}$
`\mathring{a}`	$\mathring{a}$		
`\tilde{a}`	$\tilde{a}$		
`\widetilde{a}`	$\widetilde{a}$	`\sptilde`	$\tilde{}$
`\vec{a}`	$\vec{a}$		

Math fonts

Type	Typeset
LaTeX	
`\mathbf{A}`	$\mathbf{A}$
`\mathcal{A}`	$\mathcal{A}$
`\mathit{A}`	A
`\mathnormal{A}`	$\mathnormal{A}$
`\mathrm{A}`	A
`\mathsf{A}`	A
`\mathtt{A}`	$\mathtt{A}$
`\boldsymbol{\alpha}`	$\boldsymbol{\alpha}$
`\mathbb{A}`	$\mathbb{A}$
`\mathfrak{A}`	$\mathfrak{A}$
`\mathscr{a}`	$\mathscr{A}$

`\mathscr` requires the `eucal` package with the `mathscr` option

B.9 Math spacing commands

Name	Width	Short	Long
1 mu (math unit)		`\mspace{1mu}`	
thinspace		`\,`	`\thinspace`
medspace		`\:`	`\medspace`
thickspace		`\;`	`\thickspace`
interword space		`\␣`	
1 em			`\quad`
2 em			`\qquad`
Negative space			
1 mu			`\mspace{-1mu}`
thinspace		`\!`	`\negthinspace`
medspace			`\negmedspace`
thickspace			`\negthickspace`

APPENDIX

C

Text symbol tables

C.1 Some European characters

Name	Type	Typeset	Type	Typeset
a-ring	`\aa`	å	`\AA`	Å
aesc	`\ae`	æ	`\AE`	Æ
ethel	`\oe`	œ	`\OE`	Œ
eszett	`\ss`	ß	`\SS`	SS
inverted question mark	`?``	¿		
inverted exclamation mark	`!``	¡		
slashed L	`\l`	ł	`\L`	Ł
slashed O	`\o`	ø	`\O`	Ø

C.2 Text accents

Name	Type	Typeset	Name	Type	Typeset
acute	`\'{o}`	ó	macron	`\={o}`	ō
breve	`\u{o}`	ŏ	overdot	`\.{g}`	ġ
caron/haček	`\v{o}`	ǒ	ring	`\r{u}`	ů
cedilla	`\c{c}`	ç	tie	`\t{oo}`	o͡o
circumflex	`\^{o}`	ô	tilde	`\~{n}`	ñ
dieresis/umlaut	`\"{u}`	ü	underdot	`\d{m}`	ṃ
double acute	`\H{o}`	ő	underbar	`\b{o}`	o̲
grave	`\`{o}`	ò			
dotless i	`\i`	ı	dotless j	`\j`	ȷ
	`\'{\i}`	í		`\v{\j}`	ǰ

C.3 Text font commands

C.3.1 Text font family commands

Command with Argument	Command Declaration	Switches to the font family
`\textnormal{...}`	`{\normalfont ...}`	document
`\emph{...}`	`{\em ...}`	*emphasis*
`\textrm{...}`	`{\rmfamily ...}`	roman
`\textsf{...}`	`{\sffamily ...}`	sans-serif
`\texttt{...}`	`{\ttfamily ...}`	typewriter-style
`\textup{...}`	`{\upshape ...}`	upright shape
`\textit{...}`	`{\itshape ...}`	*italic shape*
`\textsl{...}`	`{\slshape ...}`	*slanted shape*
`\textsc{...}`	`{\scshape ...}`	SMALL CAPITALS
`\textbf{...}`	`{\bfseries ...}`	**bold**
`\textmd{...}`	`{\mdseries ...}`	normal weight and width

C.3.2 Text font size changes

Command	LaTeX sample text	AMS sample text
`\Tiny`	[not available]	sample text
`\tiny`	sample text	sample text
`\SMALL` or `\scriptsize`	sample text	sample text
`\Small` or `\footnotesize`	sample text	sample text
`\small`	sample text	sample text
`\normalsize`	sample text	sample text
`\large`	sample text	sample text
`\Large`	sample text	sample text
`\LARGE`	sample text	sample text
`\huge`	sample text	sample text
`\Huge`	sample text	sample text

C.4 Additional text symbols

Name	Type	Typeset
ampersand	`\&`	&
asterisk bullet	`\textasteriskcentered`	*
backslash	`\textbackslash`	\
bar (caesura)	`\textbar`	|
brace left	`\{`	{
brace right	`\}`	}
bullet	`\textbullet`	•
circled a	`\textcircled{a}`	ⓐ
circumflex	`\textasciicircum`	^
copyright	`\copyright`	©
dagger	`\dag`	†
double dagger (diesis)	`\ddag`	‡
dollar	`\$`	$
double quotation left	`\textquotedblleft` or ``` `` ```	“
double quotation right	`\textquotedblright` or `''`	”
em dash	`\textemdash` or `---`	—
en dash	`\textendash` or `--`	–
exclamation down	`\textexclamdown` or `!` `	¡
greater than	`\textgreater`	>
less than	`\textless`	<
lowline	`\_`	_
midpoint	`\textperiodcentered`	·
octothorp	`\#`	#
percent	`\%`	%
pilcrow (paragraph)	`\P`	¶
question down	`\textquestiondown` or `?` `	¿
registered trademark	`\textregistered`	®
section	`\S`	§

Additional text symbols, *continued*

Name	Type	Typeset
single quote left	`\textquoteleft` or `` ` ``	‘
single quote right	`\textquoteright` or `'`	’
sterling	`\pounds`	£
superscript	`\textsuperscript{a}`	ª
tilde	`\textasciitilde`	~
trademark	`\texttrademark`	™
visible space	`\textvisiblespace`	␣

For the `\textsubscript` command, see Section 11.3.

C.5 Additional text symbols with T1 encoding

C.5.1 Accents

Name	Type	Typeset
ogonek	`\k{e}`	ę

C.5.2 European characters

Name	Type	Typeset	Type	Typeset
eth	`\dh`	ð	`\DH`	Ð
dyet	`\dj`	đ	`\DJ`	Đ
eng	`\ng`	ŋ	`\NG`	Ŋ
thorn	`\th`	þ	`\TH`	Þ

C.5.3 Quotation marks

Name	Type	Typeset	Type	Typeset
single guillemet	`\guilsinglleft`	‹	`\guilsinglright`	›
double guillemet	`\guillemotleft`	«	`\guillemotright`	»
single quotation	`\quotesinglbase`	‚	`\textquoteright`	’
double quotation	`\quotedblbase`	„	`\textquotedbl`	"

C.6 Text spacing commands

Name	Width	Short command	Long command
Positive Space			
Normal	varies	␣	
Intersentence	varies	\@.␣	
Interword	varies	\␣	
Italic Corr.	varies	\/␣	
Tie	varies	~	
Thinspace	␣	\,	\thinspace
Medspace	␣	\:	\medspace
Thickspace	␣	\;	\thickspace
1 em	␣␣		\quad
2 em	␣␣␣␣		\qquad
Negative Space			
Thinspace	␣	\!	\negthinspace
Medspace	␣		\negmedspace
Thickspace	␣		\negthickspace