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`	←	`\rightarrow` or `\to`	→
`\longleftarrow`	⟵	`\longrightarrow`	⟶
`\Leftarrow`	⇐	`\Rightarrow`	⇒
`\Longleftarrow`	⟸	`\Longrightarrow`	⟹
`\leftrightarrow`	↔	`\longleftrightarrow`	⟷
`\Leftrightarrow`	⇔	`\Longleftrightarrow`	⟺
`\uparrow`	↑	`\downarrow`	↓
`\Uparrow`	⇑	`\Downarrow`	⇓
`\updownarrow`	↕	`\Updownarrow`	⇕
`\nearrow`	↗	`\searrow`	↘
`\swarrow`	↙	`\nwarrow`	↖
`\iff`	⟺	`\mapstochar`	↦
`\mapsto`	↦	`\longmapsto`	⟼
`\hookleftarrow`	↩	`\hookrightarrow`	↪
`\leftharpoonup`	↼	`\rightharpoonup`	⇀
`\leftharpoondown`	↽	`\rightharpoondown`	⇁
`\leadsto`	⇝		
`\leftleftarrows`	⇇	`\rightrightarrows`	⇉
`\leftrightarrows`	⇆	`\rightleftarrows`	⇄
`\Lleftarrow`	⇚	`\Rrightarrow`	⇛
`\twoheadleftarrow`	↞	`\twoheadrightarrow`	↠
`\leftarrowtail`	↢	`\rightarrowtail`	↣
`\looparrowleft`	↫	`\looparrowright`	↬
`\upuparrows`	⇈	`\downdownarrows`	⇊
`\upharpoonleft`	↿	`\upharpoonright`	↾
`\downharpoonleft`	⇃	`\downharpoonright`	⇂
`\leftrightsquigarrow`	↭	`\rightsquigarrow`	⇝
`\multimap`	⊸		
`\nleftarrow`	↚	`\nrightarrow`	↛
`\nLeftarrow`	⇍	`\nRightarrow`	⇏
`\nleftrightarrow`	↮	`\nLeftrightarrow`	⇎
`\dashleftarrow`	⇠	`\dashrightarrow`	⇢
`\curvearrowleft`	↶	`\curvearrowright`	↷
`\circlearrowleft`	↺	`\circlearrowright`	↻
`\leftrightharpoons`	⇋	`\rightleftharpoons`	⇌
`\Lsh`	↰	`\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	¶	\S	§
\dag	†	\ddag	‡
\flat	$\flat$	\natural	$\natural$
\sharp	$\sharp$	\angle	$\angle$
\clubsuit	$\clubsuit$	\diamondsuit	$\diamondsuit$
\heartsuit	$\heartsuit$	\spadesuit	$\spadesuit$
\surd	$\surd$	\nabla	∇
\pounds	£	\neg or \lnot	¬
\Box	□	\Diamond	◇
\mho	℧		
\hslash	$\hslash$	\complement	∁
\backprime	‵	\nexists	∄
\Bbbk	k		
\diagup	╱	\diagdown	╲
\blacktriangle	▲	\blacktriangledown	▼
\triangledown	▽	\eth	ð
\square	□	\blacksquare	■
\lozenge	◊	\blacklozenge	⧫
\measuredangle	∡	\sphericalangle	∢
\circledS	Ⓢ	\bigstar	★
\Finv	Ⅎ	\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}`	$\int_a^b$	$\int_a^b$
`\oint_{a}^{b}`	$\oint_a^b$	$\oint_a^b$
`\iint_{a}^{b}`	$\iint_a^b$	$\iint_a^b$
`\iiint_{a}^{b}`	$\iiint_a^b$	$\iiint_a^b$
`\iiiint_{a}^{b}`	$\iiiint_a^b$	$\iiiint_a^b$
`\idotsint_{a}^{b}`	$\int\cdots\int_a^b$	$\int\cdots\int_a^b$
`\prod_{i=1}^{n}`	$\prod_{i=1}^{n}$	$\prod_{i=1}^{n}$
`\coprod_{i=1}^{n}`	$\coprod_{i=1}^{n}$	$\coprod_{i=1}^{n}$
`\bigcap_{i=1}^{n}`	$\bigcap_{i=1}^{n}$	$\bigcap_{i=1}^{n}$
`\bigcup_{i=1}^{n}`	$\bigcup_{i=1}^{n}$	$\bigcup_{i=1}^{n}$
`\bigwedge_{i=1}^{n}`	$\bigwedge_{i=1}^{n}$	$\bigwedge_{i=1}^{n}$
`\bigvee_{i=1}^{n}`	$\bigvee_{i=1}^{n}$	$\bigvee_{i=1}^{n}$
`\bigsqcup_{i=1}^{n}`	$\bigsqcup_{i=1}^{n}$	$\bigsqcup_{i=1}^{n}$
`\biguplus_{i=1}^{n}`	$\biguplus_{i=1}^{n}$	$\biguplus_{i=1}^{n}$
`\bigotimes_{i=1}^{n}`	$\bigotimes_{i=1}^{n}$	$\bigotimes_{i=1}^{n}$
`\bigoplus_{i=1}^{n}`	$\bigoplus_{i=1}^{n}$	$\bigoplus_{i=1}^{n}$
`\bigodot_{i=1}^{n}`	$\bigodot_{i=1}^{n}$	$\bigodot_{i=1}^{n}$
`\sum_{i=1}^{n}`	$\sum_{i=1}^{n}$	$\sum_{i=1}^{n}$

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	$\widehat{}$
\mathring{a}	$\mathring{a}$		
\tilde{a}	$\tilde{a}$		
\widetilde{a}	$\widetilde{a}$	\sptilde	$\widetilde{}$
\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 12.3.

C.5 Additional text symbols with T1 encoding

An accent

Name	Type	Typeset
Ogonek	`\k{e}`	ę

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

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`