这是正文部分,中文使用 SimSun 字体,英文使用 Times New Roman 字体。这是正文部分,中文使用 SimSun 字体,英文使用 Times New Roman 字体。 这是一个数学公式:

$$a = b + c \tag{1}$$

对于 XITS Math 字体是否可以满足"使用 Times New Roman 字体"的要求, 搜索资料发现区别仅仅是下面表格中的两个符号:

 Times	-like	tont	

	"T	Times"-like font		
	Times	Times New Roman		
Text-italic "z"	z	Z		
Percent symbol	%	%		
再次写入英文字 文本小写字母:	母进行》	则试,用于和 word ɔ	文件 test 对比。	
abcdefghijklmno	pqrstuvw	xyz		
abcdefghijklmn	opqrstuv	wxyz		
abcdefghijklmnoj	-	•		
abcdefghijklmno				L
I. word 甲默认2 斜体加粗、直体、I			Math 和 XITS Math):	按照斜体、
英文字母小写:	11年加州	.// 以 /丁		
人人 1 子 1 马 .	abo	cdefghijklmnopqrst	uvwxyz	(2)
	abc	defghijklmnopqrs	tuvwxyz	(3)
	al	ocdefghijklmnopqrstu	vwxyz	(4)
	ab	cdefghijklmnopqrst	uvwxyz	(5)
英文字母大写:				
AB	CDEFC	GHIJKLM NOPQ.	RSTUVWXYZ	(6)
ABC	CDEFG	HIJKLMNOPQ	RSTUVWXYZ	(7)
	ABCDE	FGHIJKLMNOPQR	STUVWXYZ	(8)
A	ABCDEI	FGHIJKLMNOPQR	STUVWXYZ	(9)

希腊小写

$$\alpha, \beta, \gamma, \delta, \varepsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \zeta, \tau, \upsilon, \varphi, \phi, \chi, \psi, \omega \tag{10}$$

$$\alpha, \beta, \gamma, \delta, \varepsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \zeta, \tau, \upsilon, \varphi, \phi, \chi, \psi, \omega$$
 (11)

$$\alpha, \beta, \gamma, \delta, \varepsilon, \varepsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \varsigma, \tau, \upsilon, \varphi, \phi, \chi, \psi, \omega$$
 (12)

$$\alpha, \beta, \gamma, \delta, \epsilon, \epsilon, \zeta, \eta, \theta, \vartheta, \iota, \kappa, \lambda, \mu, \nu, \xi, o, \pi, \varpi, \rho, \varrho, \sigma, \zeta, \tau, \upsilon, \varphi, \phi, \chi, \psi, \omega$$
 (13)
希腊大写

$$A, B, \Gamma, \Delta, E, Z, H, \Theta, I, K, \Lambda, M, N, \Xi, O, \Pi, P, \Sigma, T, \Upsilon, \Phi, X, \Psi, \Omega$$
(14)

$$A, B, \Gamma, \Delta, E, Z, H, \Theta, I, K, \Lambda, M, N, \Xi, O, \Pi, P, \Sigma, T, \Upsilon, \Phi, X, \Psi, \Omega$$
 (15)

$$A, B, \Gamma, \Delta, E, Z, H, \Theta, I, K, \Lambda, M, N, \Xi, O, \Pi, P, \Sigma, T, Y, \Phi, X, \Psi, \Omega$$
 (16)

$$A, B, \Gamma, \Delta, E, Z, H, \Theta, I, K, \Lambda, M, N, \Xi, O, \Pi, P, \Sigma, T, Y, \Phi, X, \Psi, \Omega$$
 (17)

2.word 中 mathtype 公式编辑器见 word 文件 test。 下表为 lshort 中文版中,表 4.2: 数学字母字体的内容:

Table 1: 数学字母字体						
示例	命令	依赖的宏包				
ABCDEabcde1234	mathnormal*					
ABCDEabcde1234	mathrm*					
ABCDEabcde1234	mathit*					
ABCDEabcde1234	mathbf*					
ABCDEabcde1234	mathsf*					
ABCDEabcde1234	mathtt*					
ABCDE	mathcal*	仅提供大写字母				
ABCDE	mathcal*	eucal 仅提供大写字母				
\mathcal{ABCDE}	mathscr*	mathrsfs 仅提供大写字母				
ABCDEabcde1234	mathfrak*	amssymb 或 eufrak				
ABCDE	mathbb*	amssymb 仅提供大写字母				

其中常用花体

ABCDEFGHIJKLMNOPQRSTUVWXYZ (18)

1 符号表

- 1. 蓝色的命令依赖 amsmath 宏包 (非 amssymb 宏包);
- 2. 带有角标 $^\ell$ 的符号命令依赖 latexsym 宏包。

1.1 LATEX 普通符号

Table 2: 文本/数学模式通用符号

这些符号可用于文本和数学模式。

{	\{	}	\}	\$	\\$	%	\%
†	\dag	§	\\$	©	\copyright		\dots
‡	\ddag	\P	\P	£	\pounds		

Table 3: 希腊字母

Alpha,Beta 等希腊字母符号不存在,因为它们和拉丁字母 A,B 等一模一样,小写字母里也不存在 omicron,直接用拉丁字母 o 代替。

α	\alpha	θ	\theta	О	0	υ	\upsilon
β	\beta	θ	\vartheta	π	\pi	ϕ	\phi
γ	\gamma	ı	\iota	$\boldsymbol{\varpi}$	\varpi	φ	\varphi
δ	\delta	κ	\kappa	ρ	\rho	χ	\chi
ϵ	\epsilon	λ	\lambda	Q	\varrho	Ψ	\psi
ε	\varepsilon	μ	\mu	σ	\sigma	ω	\omega
ζ	\zeta	ν	\nu	ς	\varsigma		
η	\eta	ξ	\xi	τ	\tau		
Γ	\Gamma	Λ	\Lambda	Σ	\Sigma	Ψ	\Psi
Δ	\Delta	Ξ	\Xi	Υ	\Upsilon	Ω	\Omega
Θ	\Theta	П	\Pi	Φ	\Phi		
Γ	\varGamma	Λ	\varLambda	Σ	\varSigma	Ψ	\varPsi
Δ	\varDelta	Ξ	\varXi	Υ	\varUpsilon	Ω	\varOmega
θ	\varTheta	П	\varPi	Φ	\varPhi		

Table 4: 二元关系符

所有的二元关系符都可以加 not 前缀得到相反意义的关系符,例如 not= 就得到不等号(同 ne)。

<	<	>	>	=	=
\leq	\leq or le	\geq	\geq or ge	=	\equiv
«	\11	>>	\gg	÷	\doteq
<	\prec	>	\succ	~	\sim
\leq	\preceq	≥	\succeq	\simeq	\simeq
\subset	\subset	D	\supset	\approx	\approx
\subseteq	\subseteq	⊇	\supseteq	\cong	\cong
⊏	$\setminus \mathtt{sqsubset}^\ell$	⊐	$\setminus \mathtt{sqsupset}^\ell$	\bowtie	$\$ Join $^\ell$
⊑	\sqsubseteq	⊒	\sqsupseteq	\bowtie	\bowtie
€	\in	∋	\ni, owns	œ	\propto
\vdash	\vdash	\dashv	\dashv	þ	\models
1	\mid	\parallel	\parallel	Т	\perp
\smile	\smile	$\overline{}$	\frown	\simeq	$\agnumber \agnumber \agn$
:	:	∉	\notin	#	\neq or ne

Table 5: 二元运算符

		1 4	010 3. —702 37-11		
+	+	-	-		
±	\pm	Ŧ	\mp	\triangleleft	\triangleleft
	\cdot	÷	\div	\triangleright	\triangleright
×	\times	`	\setminus	*	\star
U	\cup	\cap	\cap	*	\ast
Ц	\sqcup	П	\sqcap	0	\circ
٧	\vee, lor	٨	\wedge,land	•	\bullet
\oplus	\oplus	Θ	\ominus	♦	\diamond
0	\odot	Ø	\oslash	⊎	\uplus
\otimes	\otimes	0	\bigcirc	П	\amalg
\triangle	\bigtriangleup	∇	\bigtriangledown	†	\dagger
\triangleleft	$\backslash \mathtt{lhd}^\ell$	\triangleright	$\backslash \mathtt{rhd}^\ell$	‡	\ddagger
⊴	$\setminus \mathtt{unlhd}^\ell$	⊵	$ackslash \mathrm{unrhd}^\ell$	ζ	\wr

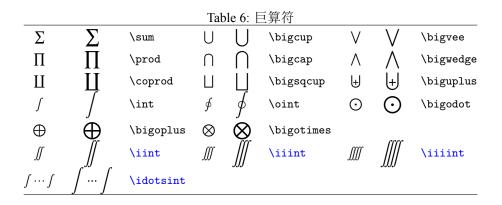


Table 7: 数学重音符号

最后一个 wideparen 依赖 yhmath 宏包。

â	\hat*a	ă	\check*a	ã	\tilde*a
á	\acute*a	à	\grave*a	ă	\breve*a
ā	\bar*a	\vec{a}	\vec*a	å	\mathring*a
à	\dot*a	ä	\ddot*a	ä	\dddot*a
ä	\ddddot*a				
\widehat{AAA}	\widehat*AAA	\widetilde{AAA}	\widetilde*AAA	\widehat{AAA}	\wideparen*AAA

- 1		_	15/5	17
Tab	10	×٠	1711	· УГ.
1 au	ı	() .	811	

\leftarrow	\leftarrow or gets	\leftarrow	\longleftarrow
\rightarrow	\rightarrow or to	\longrightarrow	\longrightarrow
\leftrightarrow	\leftrightarrow	\longleftrightarrow	\longleftrightarrow
=	\Leftarrow	\leftarrow	\Longleftarrow
\Rightarrow	\Rightarrow	\Longrightarrow	\Longrightarrow
\Leftrightarrow	\Leftrightarrow	\iff	\Longleftrightarrow
\mapsto	\mapsto	\longmapsto	\longmapsto
↩	\hookleftarrow	\hookrightarrow	\hookrightarrow
_	\leftharpoonup	_	\rightharpoonup
_	\leftharpoondown	\rightarrow	\rightharpoondown
\rightleftharpoons	\rightleftharpoons	\iff	\iff
↑	\uparrow	\downarrow	\downarrow
1	\updownarrow	\uparrow	\Uparrow
\Downarrow	\Downarrow	\$	\Updownarrow
1	\nearrow	/	\searrow
1	\swarrow	_	\nwarrow
\sim	$ackslash$ leadsto $^\ell$		

Table 9: 作为重音的箭头符号

\overrightarrow{AB}	$\verb \overrightarrow* AB$	\underline{AB}	\underrightarrow*AB
\overleftarrow{AB}	$\verb \overleftarrow* AB$	<u>AB</u>	\underleftarrow*AB
\overleftrightarrow{AB}	\overleftrightarrow*AB	AB	\underleftrightarrow*AB

Table 10: 定界符

amsmath 还定义了 lvert、rvert 和 lVert、rVert,分别作为 vert 和 Vert 对应的开符号(左侧)和闭符号(右侧)的命令。

(())	1	\uparrow	1	\downarrow
[[or lbrack]] or rbrack	⇑	\Uparrow	\Downarrow	\Downarrow
{	\{ or lbrace	}	\} or rbrace	1	\updownarrow	\$	\Updownarrow
1	or vert		\ or Vert	Γ	\lceil	1	\rceil
<	\langle	>	\rangle	L	\lfloor]	\rfloor
/	/	\	\backslash				

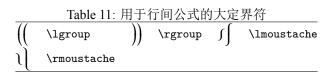


Table	12:	其他符号

	\dots		\cdots	:	\vdots	٠.	\ddots
ħ	\hbar	ı	\imath	J	\jmath	ℓ	\ell
\Re	\Re	\mathfrak{F}	\Im	×	\aleph	80	\wp
A	\forall	3	\exists	Ω	$\backslash \mathtt{mho}^\ell$	∂	\partial
,	1	,	\prime	Ø	\emptyset	∞	\infty
∇	\nabla	\triangle	\triangle		$\backslash \mathtt{Box}^\ell$	\Diamond	$ackslash exttt{Diamond}^\ell$
Τ	\bot	Т	\top	_	\angle		\surd
\Diamond	\diamondsuit	\Diamond	\heartsuit	*	\clubsuit	•	\spadesuit
	\neg or lnot	b	\flat	4	\natural	#	\sharp

1.2 AMS 符号

本小节所有符号依赖 amssymb 宏包。

Table 13: AMS 希腊字母和希伯来字母

F \digamma \varkappa \varkappa \gimel \beth \gimel \gimel \gimel \daleth

Table 14:	AMS	二元关	系符
-----------	-----	-----	----

	14010	· · · · · ·	70[e - > 6 > 6 > 1 + 1 + 1		
<	\lessdot	>	\gtrdot	÷	\doteqdot
≤	\leqslant	≽	\geqslant	≓	\risingdotseq
<	\eqslantless	≽	\eqslantgtr	≒	\fallingdotseq
≦	\leqq	≧	\geqq	≖	\eqcirc
**	\111 or llless	>>>	\ggg	$\stackrel{\circ}{=}$	\circeq
≲	\lesssim	≳	\gtrsim	≜	\triangleq
≨	\lessapprox	≳	\gtrapprox	-	\bumpeq
≶	\lessgtr	≷	\gtrless	\$	\Bumpeq
<u>≤</u>	\lesseqgtr	≥	\gtreqless	~	\thicksim
≦	\lesseqqgtr	\geq	\gtreqqless	≈	\thickapprox
≼	\preccurlyeq	≽	\succcurlyeq	≊	\approxeq
⋞	\curlyeqprec	≽	\curlyeqsucc	~	\backsim
≾	\precsim	≿	\succsim	2	\backsimeq
≋	\precapprox	×≈	\succapprox	⊨	\vDash
⊆	\subseteqq	⊇	\supseteqq	⊩	\Vdash
П	\shortparallel	∍	\Supset	III	\Vvdash
◀	$\blue{location}$	⊐	\sqsupset	Э	\backepsilon
\triangleright	\vartriangleright	:	\because	\propto	\varpropto
	\blacktriangleright	€	\Subset	Ŏ	\between
⊵	\trianglerighteq	$\overline{}$	\smallfrown	Ψ	\pitchfork
⊲	\vartriangleleft	ı	\shortmid	\smile	\smallsmile
⊴	\trianglelefteq	:.	\therefore	⊏	\sqsubset

Table 15: AmS 二元运算符

÷	\dotplus		\centerdot		
\bowtie	\ltimes	×	\rtimes	*	\divideontimes
U	\doublecup	$ \ \ \mathbb{D}$	\doublecap	`	\setminus
\vee	\veebar	$\overline{\wedge}$	\barwedge	⊼	\doublebarwedge
\blacksquare	\boxplus	\Box	\boxminus	Θ	\circleddash
\boxtimes	\boxtimes	⊡	\boxdot	0	\circledcirc
T	\intercal	*	\circledast	~	\rightthreetimes
Υ	\curlyvee	٨	\curlywedge	\rightarrow	\leftthreetimes

Table 16: AmS 箭头

	14010 10.		1471
←	\dashleftarrow	>	\dashrightarrow
⊭	\leftleftarrows	\Rightarrow	\rightrightarrows
\leftrightarrows	\leftrightarrows	⇄	\rightleftarrows
€	\Lleftarrow	\Rightarrow	\Rrightarrow
←	\twoheadleftarrow	→	\twoheadrightarrow
\leftarrow	\leftarrowtail	\rightarrow	\rightarrowtail
\leftrightharpoons	\leftrightharpoons	\rightleftharpoons	\rightleftharpoons
1	\Lsh	7	\Rsh
₩	\looparrowleft	↔	\looparrowright
\sim	\curvearrowleft	\Diamond	\curvearrowright
Q	\circlearrowleft	Ŏ	\circlearrowright
~	\multimap	$\uparrow\uparrow$	\upuparrows
$\downarrow \downarrow$	\downdownarrows	1	\upharpoonleft
1	\upharpoonright	ļ	\downharpoonright
→	\rightsquigarrow	₩	\leftrightsquigarrow

	Table 17: AmS 反义二元关系符和箭头						
≮	\nless	*	\ngtr	≨	\varsubsetneqq		
≨	\lneq	≥	\gneq	\supseteq	\varsupsetneqq		
≰	\nleq	≱	\ngeq	$\not\sqsubseteq$	\nsubseteqq		
≰	\nleqslant	$\not\geq$	\ngeqslant	$\not\supseteq$	\nsupseteqq		
≨	\lneqq	≩	\gneqq	ł	\nmid		
\leqq	\lvertneqq	\geqq	\gvertneqq	#	\nparallel		
≨	\nleqq	≱	\ngeqq	ł	\nshortmid		
⋦	\label{lnsim}	⋧	\gnsim	Ħ	\nshortparallel		
≨	\lnapprox	≽	\gnapprox	*	\nsim		
⊀	\nprec	*	\nsucc	≇	\ncong		
\npreceq	\npreceq	$\not\succeq$	\nsucceq	¥	\nvdash		
≨	\precneqq	≱	\succneqq	¥	\nvDash		
⋨	\precnsim	⋩	\succnsim	\mathbb{H}	\nVdash		
∡ ≋	\precnapprox	≿ ≋	\succnapprox	¥	\nVDash		
⊊	\subsetneq	⊋	\supsetneq	$\not \bigtriangleup$	\ntriangleleft		
⊊	\varsubsetneq	\supseteq	\varsupsetneq	$\not\trianglerighteq$	\ntriangleright		
⊈	\nsubseteq	⊉	\nsupseteq	⊉	\n		
⊊	\subsetneqq	⊋	\supsetneqq	⋭	\n		
↔	\nleftarrow	$ \leftrightarrow $	\nrightarrow	↔	\nleftrightarrow		
#	\nLeftarrow	≠	\nRightarrow	#	\nLeftrightarrow		

Table 18: AmS 定界符							
г	\ulcorner	٦	\urcorner	L	\llcorner	٦	\lrcorner

Table	19:	AmS	其	它符	号

ħ	\hbar	ħ	\hslash	k	\Bbbk
	\square		\blacksquare	\odot	\circledS
Δ	\vartriangle	•	\blacktriangle	C	\complement
∇	\triangledown	•	\blacktriangledown	С	\Game
\Diamond	\lozenge	•	\blacklozenge	*	\bigstar
_	\angle	4	\measuredangle		
/	\diagup	\	\diagdown	1	\backprime
∄	\nexists	Ь	\Finv	Ø	\varnothing
ð	\eth	∢	\sphericalangle	Ω	\mho