

# The unicode-math test suite

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## Preamble

The following pieces of output are generated from the code shown. As well as being good minimal examples, these tests are useful to ensure that new bugs don't affect old behaviour. When the test suite is run, the new output is compared pixel by pixel with that shown here and warnings produced if the outputs are not identical.

### 1 Test 001a

```
\input{umtest-preamble}  
\usepackage[math-style=TeX]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\\[LATINText\\  
\\[latintext\\  
\\[LATINmath\\  
\\[latinmath\\  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*

### 2 Test 001b

```
\input{umtest-preamble}  
\usepackage[math-style=ISO]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\\[LATINText\\  
\\[latintext\\  
\\[LATINmath\\  
\\[latinmath\\  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*

### 3 Test 001c

```
\input{umtest-preamble}  
\usepackage[math-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \text{LATINtext} \]  
\[ \text{latin} \]  
\[ \text{LATINmath} \]  
\[ \text{latin} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
*abcdefghijklmnopqrstuvwxyz*  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
*abcdefghijklmnopqrstuvwxyz*

### 4 Test 001d

```
\input{umtest-preamble}  
\usepackage[math-style=French]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \text{LATINtext} \]  
\[ \text{latin} \]  
\[ \text{LATINmath} \]  
\[ \text{latin} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
*abcdefghijklmnopqrstuvwxyz*  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
*abcdefghijklmnopqrstuvwxyz*

### 5 Test 001e

```
\input{umtest-preamble}  
\usepackage[math-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \text{LATINtext} \]  
\[ \text{latin} \]  
\[ \text{LATINmath} \]  
\[ \text{latin} \]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
*abcdefghijklmnopqrstuvwxyz*  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
*abcdefghijklmnopqrstuvwxyz*

## 6 Test 002a

```
\input{umtest-preamble}  
\usepackage[math-style=TeX]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\GREEKtext\  
\[\greektext\  
\[\GREEKmath\  
\[\greekmath\  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
*αβγδεζηθικλμνξοπρρςστυφφχψω*  
ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
*αβγδεζηθικλμνξοπρρςστυφφχψω*

## 7 Test 002b

```
\input{umtest-preamble}  
\usepackage[math-style=ISO]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\GREEKtext\  
\[\greektext\  
\[\GREEKmath\  
\[\greekmath\  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
*αβγδεζηθικλμνξοπρρςστυφφχψω*  
ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
*αβγδεζηθικλμνξοπρρςστυφφχψω*

## 8 Test 002c

```
\input{umtest-preamble}  
\usepackage[math-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\GREEKtext\  
\[\greektext\  
\[\GREEKmath\  
\[\greekmath\  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
*αβγδεζηθικλμνξοπρρςστυφφχψω*  
ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
*αβγδεζηθικλμνξοπρρςστυφφχψω*

## 9 Test 002d

```
\input{umtest-preamble}  
\usepackage[math-style=French]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\GREEKtext\  
\[\greektext\  
\[\GREEKmath\  
\[\greekmath\  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεζηθικλμνξοπρρςστυφφχψω  
ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεζηθικλμνξοπρρςστυφφχψω

## 10 Test 002e

```
\input{umtest-preamble}  
\usepackage[math-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\GREEKtext\  
\[\greektext\  
\[\GREEKmath\  
\[\greekmath\  
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεζηθικλμνξοπρρςστυφφχψω  
ΑΒΓΔΕΖΗΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεζηθικλμνξοπρρςστυφφχψω

## 11 Test 004a

```
\input{umtest-preamble}  
\usepackage[sans-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\LATINmathsfup\  
\[\LATINmathsfitt\  
\[\latinmathsfup\  
\[\latinmathsfitt\  
\[\numbersmathsfup\  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
abcdefghijklmnopqrstuvwxyz  
0123456789

## 12 Test 004b

```
\input{umtest-preamble}  
\usepackage[sans-style=upright]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathsf{\backslash LATINtext}\]  
\[\mathsf{\backslash LATINmath}\]  
\[\mathsf{\backslash latintext}\]  
\[\mathsf{\backslash latinmath}\]  
\[\mathsf{0123456789}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
abcdefghijklmnopqrstuvwxyz  
0123456789

## 13 Test 004c

```
\input{umtest-preamble}  
\usepackage[sans-style=italic]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\backslash LATINmathsfup\]  
\[\backslash LATINmathsfit\]  
\[\backslash latinmathsfup\]  
\[\backslash latinmathsfit\]  
\[\backslash numbersmathsfup\]  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
*abcdefghijklmnopqrstuvwxyz*  
0123456789

## 14 Test 004d

```
\input{umtest-preamble}  
\usepackage[sans-style=italic]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathsf{\backslash LATINtext}\]  
\[\mathsf{\backslash LATINmath}\]  
\[\mathsf{\backslash latintext}\]  
\[\mathsf{\backslash latinmath}\]  
\[\mathsf{0123456789}\]  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
*abcdefghijklmnopqrstuvwxyz*  
0123456789

## 15 Test 004e

```
\input{umtest-preamble}  
\usepackage[sans-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\LATINmathsfup\  
\[\LATINmathsfit\  
\[\latinmathsfup\  
\[\latinmathsfit\  
\[\numbersmathsfup\  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
abcdefghijklmnopqrstuvwxyz  
*abcdefghijklmnopqrstuvwxyz*  
0123456789

## 16 Test 004f

```
\input{umtest-preamble}  
\usepackage[sans-style=literal]{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathsf{\LATINtext}\  
\[\mathsf{\LATINmath}\  
\[\mathsf{\latintext}\  
\[\mathsf{\latinmath}\  
\[\mathsf{0123456789}\  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
abcdefghijklmnopqrstuvwxyz  
*abcdefghijklmnopqrstuvwxyz*  
0123456789

## 17 Test 005a

```
\input{umtest-preamble}  
\usepackage[sans-style=upright]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\LATINmathbfsfup\  
\[\LATINmathbfsfit\  
\[\latinmathbfsfup\  
\[\latinmathbfsfit\  
\[\numbersmathbfsfup\  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
**ABCDEFGHIJKLMNOPQRSTUVWXYZ**  
abcdefghijklmnopqrstuvwxyz  
**abcdefghijklmnopqrstuvwxyz**  
0123456789

## 18 Test 005b

```
\input{umtest-preamble}  
\usepackage[sans-style=upright]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\GREEKmathbfsfup\  
\[\GREEKmathbfsfit\  
\[\greekmathbfsfup\  
\[\greekmathbfsfit\  
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεεζηθθικλμνξοπρρςστυφθχψω  
αβγδεεζηθθικλμνξοπρρςστυφθχψω

## 19 Test 005c

```
\input{umtest-preamble}  
\usepackage[sans-style=upright]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\mathbfsf\LATINmath\  
\[\mathbfsf\LATINtext\  
\[\mathbfsf\latinmath\  
\[\mathbfsf\latintext\  
\[\mathbfsf{0123456789}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
abcdefghijklmnopqrstuvwxyz  
0123456789

## 20 Test 005d

```
\input{umtest-preamble}  
\usepackage[sans-style=upright]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\mathbfsf\GREEKmath\  
\[\mathbfsf\GREEKtext\  
\[\mathbfsf\greekmath\  
\[\mathbfsf\greektext\  
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεεζηθθικλμνξοπρρςστυφφχψω  
αβγδεεζηθθικλμνξοπρρςστυφφχψω

## 21 Test 005e

```
\input{umtest-preamble}  
\usepackage[sans-style=italic]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\backslash\mathrm{bfsfup}\]  
\[\backslash\mathrm{bfsfit}\]  
\[\backslash\mathrm{bfsfup}\]  
\[\backslash\mathrm{bfsfit}\]  
\[\backslash\mathrm{bfsfup}\]  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
*abcdefghijklmnopqrstuvwxyz*  
0123456789

## 22 Test 005f

```
\input{umtest-preamble}  
\usepackage[sans-style=italic]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\backslash\mathrm{bfsfup}\]  
\[\backslash\mathrm{bfsfit}\]  
\[\backslash\mathrm{bfsfup}\]  
\[\backslash\mathrm{bfsfit}\]  
\end{document}
```

*ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ*  
*ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ*  
*αβγδεζηθικλμνξοπρρςστυφθχψω*  
*αβγδεζηθικλμνξοπρρςστυφθχψω*

## 23 Test 005g

```
\input{umtest-preamble}  
\usepackage[sans-style=italic]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\backslash\mathrm{bfsf}\backslash\mathrm{LATINmath}\]  
\[\backslash\mathrm{bfsf}\backslash\mathrm{LATINtext}\]  
\[\backslash\mathrm{bfsf}\backslash\mathrm{latinmath}\]  
\[\backslash\mathrm{bfsf}\backslash\mathrm{latintext}\]  
\[\backslash\mathrm{bfsf}\{0123456789\}\]  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
*abcdefghijklmnopqrstuvwxyz*  
0123456789



## 24 Test 005h

```
\input{umtest-preamble}  
\usepackage[sans-style=italic]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\mathbfsf\GREEKmath\  
\[\mathbfsf\GREEKtext\  
\[\mathbfsf\greekmath\  
\[\mathbfsf\greektext\  
\end{document}
```

*ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ*  
*ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ*  
*αβγδεζηθικλμνξοπρρςστυφφχψω*  
*αβγδεζηθικλμνξοπρρςστυφφχψω*

## 25 Test 005i

```
\input{umtest-preamble}  
\usepackage[sans-style=literal]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\LATINmathbfsfup\  
\[\LATINmathbfsfit\  
\[\latinmathbfsfup\  
\[\latinmathbfsfit\  
\[\numbersmathbfsfup\  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
*abcdefghijklmnopqrstuvwxyz*  
0123456789

## 26 Test 005j

```
\input{umtest-preamble}  
\usepackage[sans-style=literal]{unicode-math}  
\setmathfont{Code2001}  
\begin{document}  
\[\mathbfsf\LATINmath\  
\[\mathbfsf\LATINtext\  
\[\mathbfsf\latinmath\  
\[\mathbfsf\latintext\  
\[\mathbfsf{0123456789}\  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
*abcdefghijklmnopqrstuvwxyz*  
0123456789

## 27 Test 005k

```
\input{umtest-preamble}
\usepackage[sans-style=literal]{unicode-math}
\setmathfont{Code2001}
\begin{document}
\[\mathbfsf\GREEKmath\]
\[\mathbfsf\GREEKtext\]
\[\mathbfsf\greekmath\]
\[\mathbfsf\greektext\]
\end{document}
```

*ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ*  
*ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ*  
*αβγδεεζηθθικιμνξοπαρρςστυφφχψω*  
*αβγδεεζηθθικιμνξοπαρρςστυφφχψω*

## 28 Test 010a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathscr{\LATINText}\]
\[\mathscr{\latintext}\]
\[\mathscr{\LATINmath}\]
\[\mathscr{\latinmath}\]
\end{document}
```

*ΑΒCDEFGHIJJKLMNOPQRSTUvwxyz*  
*αβcdefghijklmnopqrstuvwxyz*  
*ΑΒCDEFGHIJJKLMNOPQRSTUvwxyz*  
*αβcdefghijklmnopqrstuvwxyz*

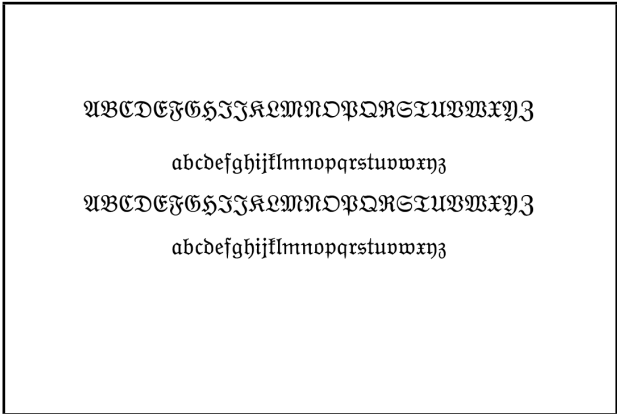
## 29 Test 010b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\LATINmathscr\]
\[\latinmathscr\]
\[\reservedmathscr\]
\end{document}
```

*ΑΒCDEFGHIJJKLMNOPQRSTUvwxyz*  
*αβcdefghijklmnopqrstuvwxyz*

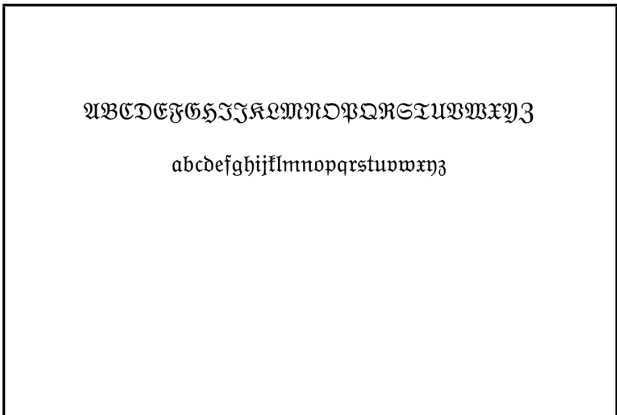
### 30 Test 010c

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathfrak{\text{LATINtext}}\]
\[\mathfrak{\text{latintext}}\]
\[\mathfrak{\text{LATINmath}}\]
\[\mathfrak{\text{latinmath}}\]
\end{document}
```



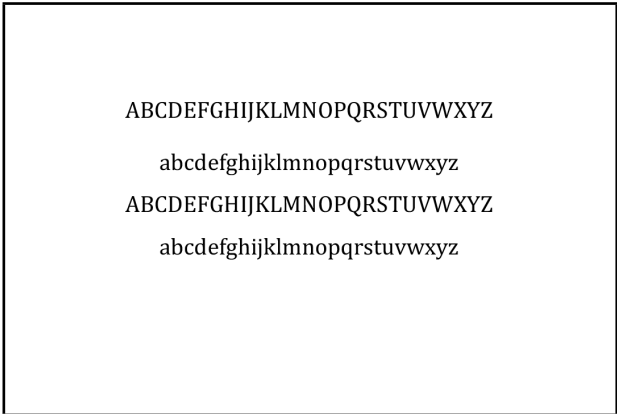
### 31 Test 010d

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\text{LATINmathfrak}\]
\[\text{latinmathfrak}\]
\[\text{reservedmathfrak}\]
\end{document}
```



### 32 Test 011a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathup{\text{LATINtext}}\]
\[\mathup{\text{latintext}}\]
\[\mathup{\text{LATINmath}}\]
\[\mathup{\text{latinmath}}\]
\end{document}
```



### 33 Test 011b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathup{\GREEKtext}\]
\[\mathup{\greektext}\]
\[\mathup{\GREEKmath}\]
\[\mathup{\greekmath}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεζηθικλμνξοπρρςστυφφχψω  
ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεζηθικλμνξοπρρςστυφφχψω

### 34 Test 012a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathit{\LATINtext}\]
\[\mathit{\latintext}\]
\[\mathit{\LATINmath}\]
\[\mathit{\latinmath}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΛΜΝΟΠΡΣΤΥΦΧΨΩ  
*αβγδεζηθικλμνξοπρρςστυφφχψω*  
ΑΒΓΔΕΖΗΘΙΚΛΜΝΟΠΡΣΤΥΦΧΨΩ  
*αβγδεζηθικλμνξοπρρςστυφφχψω*

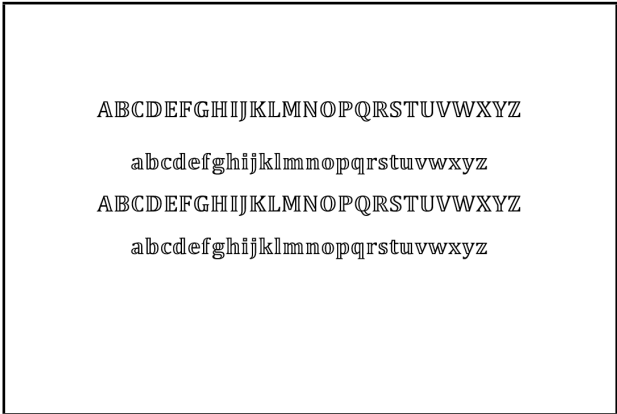
### 35 Test 012b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathit{\GREEKtext}\]
\[\mathit{\greektext}\]
\[\mathit{\GREEKmath}\]
\[\mathit{\greekmath}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεζηθικλμνξοπρρςστυφφχψω  
ΑΒΓΔΕΖΗΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεζηθικλμνξοπρρςστυφφχψω

### 36 Test 013a

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbb{\text{ABCDEFGHIJKLMNOPQRSTUVWXYZ}}\]  
\[\mathbb{\text{abcdefghijklmnopqrstuvwxyz}}\]  
\[\mathbb{\text{ABCDEFGHIJKLMNOPQRSTUVWXYZ}}\]  
\[\mathbb{\text{abcdefghijklmnopqrstuvwxyz}}\]  
\end{document}
```



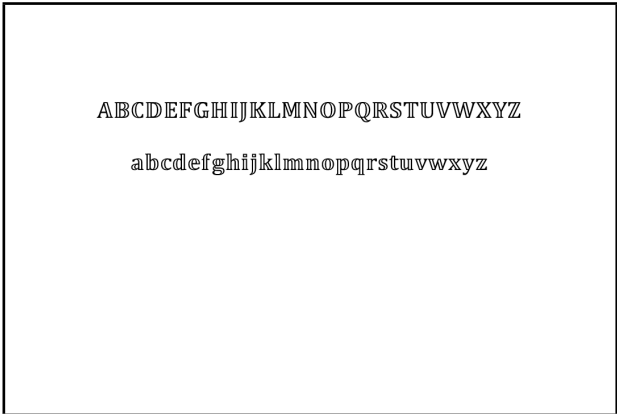
### 37 Test 013b

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbb{0123456789}\]  
\[\numbersmathbb{}\]  
\end{document}
```



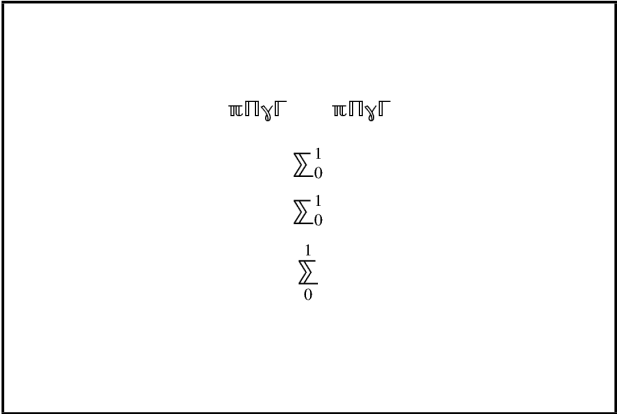
### 38 Test 013c

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\LATINmathbb{}\]  
\[\latinmathbb{}\]  
\[\reservedmathbb{}\]  
\end{document}
```



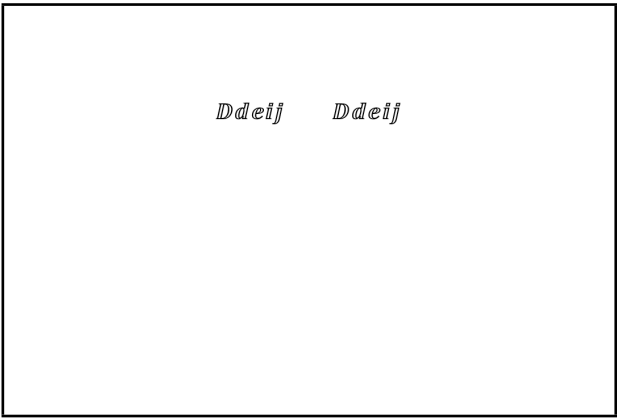
39    Test 013d

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{STIXGeneral}
\begin{document}
\[\ \mathbb{\pi\Gamma}\ \qquad \mathbb{\pi\Gamma}\ ]
\[\ \mathbb{\sum}_0^1\ ]
\[\ \mathbb{\Sigma}_0^1\ ]
\[\ \mathbb{\sum}_0^1\ ]
\end{document}
```



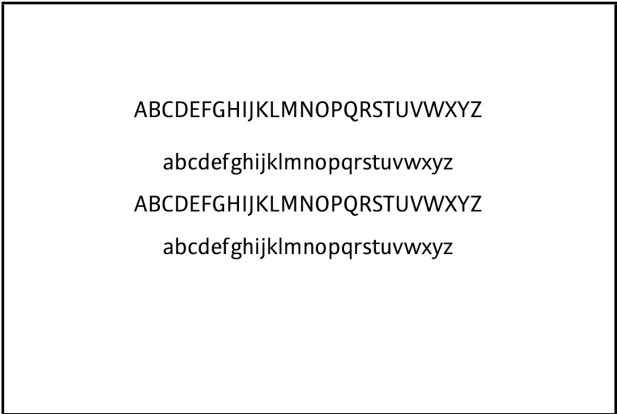
40    Test 013e

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbbit{Ddeij}\qquad\mathbbit{\pi\Gamma}\]
\end{document}
```



41    Test 014a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathsfup{\LATINtext}\]
\[\mathsfup{\latinintext}\]
\[\mathsfup{\LATINmath}\]
\[\mathsfup{\latinmath}\]
\end{document}
```



42 Test 014b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathsfup{0123456789}\]
\[\mathsfup{0123456789}\]
\end{document}
```

0123456789

0123456789

43 Test 014c

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\LATINmathsfup\]
\[\latinmathsfup\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

44 Test 015a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathsfit{\LATINtext}\]
\[\mathsfit{\latintext}\]
\[\mathsfit{\LATINmath}\]
\[\mathsfit{\latinmath}\]
\[\mathsfit{0123456789}\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

0123456789

45    Test 015b

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\LATINmathsfit\  
\[\latinmathsfit\  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz

46    Test 016a

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Asana Math}  
\begin{document}  
\[\mathhtt{\LATINtext}\]  
\[\mathhtt{\latintext}\]  
\[\mathhtt{\LATINmath}\]  
\[\mathhtt{\latinmath}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz

47    Test 016b

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Asana Math}  
\begin{document}  
\[\mathhtt{0123456789}\]  
\[\numbersmathtt\  
\end{document}
```

0123456789  
0123456789



48    Test 016c

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Asana Math}  
\begin{document}  
\[ \backslash\mathrm{LATINmath}\mathrm{tt}\backslash]  
\[ \backslash\mathrm{latinmath}\mathrm{tt}\backslash]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz

49    Test 017a

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \backslash\mathbf{fscr}\backslash\mathrm{LATINtext}\backslash]  
\[ \backslash\mathbf{fscr}\backslash\mathrm{latintext}\backslash]  
\[ \backslash\mathbf{fscr}\backslash\mathrm{LATINmath}\backslash]  
\[ \backslash\mathbf{fscr}\backslash\mathrm{latinmath}\backslash]  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*

50    Test 017b

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[ \backslash\mathrm{LATINmath}\mathbf{fscr}\backslash]  
\[ \backslash\mathrm{latinmath}\mathbf{fscr}\backslash]  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*

## 51 Test 017c

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbf{frak{\text{LATINtext}}}\]  
\[\mathbf{frak{\text{latintext}}}\]  
\[\mathbf{frak{\text{LATINmath}}}\]  
\[\mathbf{frak{\text{latinmath}}}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz

## 52 Test 017d

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbf{frak{\text{LATINmath}}}\]  
\[\mathbf{frak{\text{latinmath}}}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz

## 53 Test 018a

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbf{fup{\text{LATINtext}}}\]  
\[\mathbf{fup{\text{latintext}}}\]  
\[\mathbf{fup{\text{LATINmath}}}\]  
\[\mathbf{fup{\text{latinmath}}}\]  
\[\mathbf{fup{0123456789}}\]  
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
ABCDEFGHIJKLMNOPQRSTUVWXYZ  
abcdefghijklmnopqrstuvwxyz  
0123456789

## 54 Test 018b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbfup{\GREEKtext}\]
\[\mathbfup{\greektext}\]
\[\mathbfup{\GREEKmath}\]
\[\mathbfup{\greekmath}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω  
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω

## 55 Test 019a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbf{it}{\LATINtext}\]
\[\mathbf{it}{\latintext}\]
\[\mathbf{it}{\LATINmath}\]
\[\mathbf{it}{\latinmath}\]
\[\mathbf{it}{0123456789}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΙΚΛΜΝΟΠΡΣΤΥΦΧΨΩ  
*αβγδεζηθικλμνοπρστυφχψω*  
ΑΒΓΔΕΖΗΘΙΚΛΜΝΟΠΡΣΤΥΦΧΨΩ  
*αβγδεζηθικλμνοπρστυφχψω*  
0123456789

## 56 Test 019b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathbf{it}{\GREEKtext}\]
\[\mathbf{it}{\greektext}\]
\[\mathbf{it}{\GREEKmath}\]
\[\mathbf{it}{\greekmath}\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω  
ΑΒΓΔΕΖΗΘΘΙΚΑΜΝΞΟΠΡΣΤΥΦΧΨΩ  
αβγδεεζηθθικκλμνξοπωρρςστυφφχψω

## 57 Test 020a

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbfsfit{\LATINtext}\]  
\[\mathbfsfit{\latintext}\]  
\[\mathbfsfit{\LATINmath}\]  
\[\mathbfsfit{\latinmath}\]  
\[\mathbfsfit{0123456789}\]  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
**0123456789**

## 58 Test 020b

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{STIXGeneral-Bold}  
\begin{document}  
\[\mathbfsfup{\GREEKtext}\]  
\[\mathbfsfup{\greektext}\]  
\[\mathbfsfup{\GREEKmath}\]  
\[\mathbfsfup{\greekmath}\]  
\end{document}
```

**ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ**  
**αβγδεζηθδικκλμνξοπρρςστυφχψω**  
**ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ**  
**αβγδεζηθδικκλμνξοπρρςστυφχψω**

## 59 Test 021a

```
\input{umtest-preamble}  
\usepackage{unicode-math}  
\setmathfont{Cambria Math}  
\begin{document}  
\[\mathbfsfit{\LATINtext}\]  
\[\mathbfsfit{\latintext}\]  
\[\mathbfsfit{\LATINmath}\]  
\[\mathbfsfit{\latinmath}\]  
\[\mathbfsfit{0123456789}\]  
\end{document}
```

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
*ABCDEFGHIJKLMNOPQRSTUVWXYZ*  
*abcdefghijklmnopqrstuvwxyz*  
**0123456789**

## 60 Test 021b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{STIXGeneral-BoldItalic}
\begin{document}
\[\mathbfsfit{\GREEKtext}\]
\[\mathbfsfit{\greektext}\]
\[\mathbfsfit{\GREEKmath}\]
\[\mathbfsfit{\greekmath}\]
\end{document}
```

*ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ*  
*αβγδεεζηθθικκλμνξοπρρςστυφφχψω*  
*ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ*  
*αβγδεεζηθθικκλμνξοπρρςστυφφχψω*

## 61 Test 030a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\mathup{\mathbb{F}}\]
\[\mathbf{\mathbb{F}}\]
\[\mathup{\mathbb{F}}\]
\[\mathbf{\mathbb{F}}\]
\end{document}
```

$\mathbb{F}$

$\mathbb{F}$

$\mathbb{F}$

$\mathbb{F}$

## 62 Test 031a

```
\input{umtest-preamble}
\usepackage[nabla=upright]{unicode-math}
\setmathfont{Free Serif}
\begin{document}
\[\mathup{\mathbb{N}} \quad \mathit{\mathbb{N}} \quad \mathbf{\mathbb{N}}\]
\[\mathbfup{\mathbb{N}} \quad \mathbfbf{\mathbb{N}} \quad \mathbfbf{\mathbb{N}}\]
\[\mathbfbfup{\mathbb{N}} \quad \mathbfbfbf{\mathbb{N}} \quad \mathbfbfbf{\mathbb{N}}\]
\end{document}
```

$\mathbb{N}$   $\mathbb{N}$   $\mathbb{N}$

$\mathbb{N}$   $\mathbb{N}$

$\mathbb{N}$   $\mathbb{N}$

$\mathbb{N}$   $\mathbb{N}$

## 63 Test 031b

```
\input{umtest-preamble}
\usepackage[nabla=italic]{unicode-math}
\setmathfont{Free Serif}
\begin{document}
\[\nabla \quad \nabla \quad \nabla\]
\[\mathup{\nabla} \quad \quad \mathit{\nabla}\]
\[\mathbfup{\nabla} \quad \quad \mathbfit{\nabla}\]
\[\mathbfsfup{\nabla} \quad \quad \mathbfsf{\nabla}\]
\end{document}
```

$\nabla \quad \nabla \quad \nabla$   
 $\mathup{\nabla} \quad \mathit{\nabla}$   
 $\mathbfup{\nabla} \quad \mathbfit{\nabla}$   
 $\mathbfsfup{\nabla} \quad \mathbfsf{\nabla}$

## 64 Test 032a

```
\input{umtest-preamble}
\usepackage[partial=upright]{unicode-math}
\setmathfont{Asana Math}
\begin{document}
\[\partial \quad \partial \quad \partial\]
\[\mathup{\partial} \quad \quad \mathit{\partial}\]
\[\mathbfup{\partial} \quad \quad \mathbfit{\partial}\]
\[\mathbfsfup{\partial} \quad \quad \mathbfbfsf{\partial}\]
\end{document}
```

$\partial \quad \partial \quad \partial$   
 $\mathup{\partial} \quad \mathit{\partial}$   
 $\mathbfup{\partial} \quad \mathbfit{\partial}$   
 $\mathbfsfup{\partial} \quad \mathbfbfsf{\partial}$

## 65 Test 032b

```
\input{umtest-preamble}
\usepackage[partial=italic]{unicode-math}
\setmathfont{Asana Math}
\begin{document}
\[\partial \quad \partial \quad \partial\]
\[\mathup{\partial} \quad \quad \mathit{\partial}\]
\[\mathbfup{\partial} \quad \quad \mathbfit{\partial}\]
\[\mathbfsfup{\partial} \quad \quad \mathbfbfsf{\partial}\]
\end{document}
```

$\partial \quad \partial \quad \partial$   
 $\mathup{\partial} \quad \mathit{\partial}$   
 $\mathbfup{\partial} \quad \mathbfit{\partial}$   
 $\mathbfsfup{\partial} \quad \mathbfbfsf{\partial}$

## 66 Test 100a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left( \left( \left( \left( \left( \left( x^2 \right)^2 \right)^2 \right)^2 \right)^2 \right)^2 \right)
\end{document}
```

$$\left(\left(\left(\left(\left(\left(x^2\right)^2\right)^2\right)^2\right)^2\right)^2\right)$$

## 67 Test 100b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left[ \left[ \left[ \left[ \left[ \left[ \left[ x^2 \right]^2 \right]^2 \right]^2 \right]^2 \right]^2 \right]^2 \right]
\end{document}
```

$$\left[\left[\left[\left[\left[\left[\left[x^2\right]^2\right]^2\right]^2\right]^2\right]^2\right]^2\right]$$

## 68 Test 100c

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left\{ \left\{ \left\{ \left\{ \left\{ \left\{ \left\{ x^2 \right\}^2 \right\}^2 \right\}^2 \right\}^2 \right\}^2 \right\}
\end{document}
```

$$\left\{\left\{\left\{\left\{\left\{\left\{\left\{x^2\right\}^2\right\}^2\right\}^2\right\}^2\right\}^2\right\}$$

## 69 Test 100d

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right.
\right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \]

\[ \left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right.
\right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \]
\end{document}
```

$$\left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right. \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \right|$$

$$\left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right. \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \right|$$

## 70 Test 100e

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right.
\right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \]

\[ \left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right.
\right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \right|^2 \]
\end{document}
```

$$\left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right. \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \right|$$

$$\left| \left| \left| \left| \left| \left| x \right. \right. \right. \right. \right. \right. \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \left| \right|^2 \right|$$

## 71 Test 101a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ a > b \quad c < d \quad ]
\[ \left< \left< \left< \left< x \right.>^2
\right.>^2 \right.>^2 \right.>^2 \]
\end{document}
```

$$a > b \quad c < d \quad ]$$

$$\left\langle \left\langle \left\langle x \right\rangle^2 \right\rangle^2 \right\rangle^2$$



72 Test 102a

```
\input{umtest-preamble}
\usepackage[slash-delimiter=frac]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \left.\left[\begin{array}{cc}
a & b \\
c & d
\end{array}\right]\right/\left[\begin{array}{cc}
1 & 1 \\
1 & 0
\end{array}\right]
\end{array}\right]
\end{document}
```

$$\left[\begin{array}{cc} a & b \\ c & d \end{array}\right] \bigg/ \left[\begin{array}{cc} 1 & 1 \\ 1 & 0 \end{array}\right]$$

73 Test 150a

```
\input{umtest-preamble}
\usepackage{amsmath,unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\centerline{$\int\!\!\!\int\!\!\!\int$}
\end{document}
```

$$\int\!\!\!\int\!\!\!\int$$

74 Test 151a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \hat{i} \quad \hat{x} \quad \hat{M} \quad \widehat{x+y}
\]
\[ \tilde{i} \quad \tilde{x} \quad \tilde{M} \quad \widetilde{x+y}
\]
\end{document}
```

$$\begin{array}{cccc} \hat{i} & \hat{x} & \hat{M} & \widehat{x+y} \\ \tilde{i} & \tilde{x} & \tilde{M} & \widetilde{x+y} \end{array}$$

## 75 Test 200a

```
\input{umtest-preamble}
\usepackage{amsmath,unicode-math}
\setmathfont{Cambria Math}
\begin{document}
  [${x\prime\prime\prime}$]
  [${x\prime\prime\prime\prime\prime\prime\prime}$]
  [${x'}$]
  [${x'''}$]
  [${x''''''}$]
  [${x'}$]
  [${x'''}$]
  [${x''''''}$]
  [${x\text{}}$]
  [${x\text{}}\text{}}$]
  [${x\text{}}'\text{}}\prime\text{}}$]
\end{document}
```

$$[x'''] [x'''''] [x'] [x'''] [x'''''] [x'] [x'''] [x''''']$$

## 76 Test 201a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
  \[ \sqrt{\sin^2 x + \cos^2 x} = 1 \]
  \[ \sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + x}}}} \]
\end{document}
```

$$\sqrt{\sin^2 x + \cos^2 x} = 1$$

$$\sqrt{1 + \sqrt{1 + \sqrt{1 + \sqrt{1 + x}}}}$$

## 77 Test 202a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
  [a\colon b\qqquad a: b]
  \qqquad a^{^^^2236} b\]
\end{document}
```

$$a:b \quad a: b \quad a: b$$

78 Test 202b

```
\input{umtest-preamble}
\usepackage[colon=literal]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[a\colon b\qqquad a: b
\qqquad a^{^^^2236} b\]
\end{document}
```

$$a\colon b \qquad a:b \qquad a:b$$

79 Test 203a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[a-b\]
\[a\minus b\]
\end{document}
```

$$a-b$$
$$a-b$$

80 Test 204a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\setlength\parskip{12pt}
\begin{document}
 $x_{012} x_{123} x_{234} x_{345} x_{456} x_{567} x_{678} x_{789} x_{89+}$ 
 $x_{9+-} x_{+-(} x_{-(= } x_{(=) } x_{=)a} x_{)ae} x_{aeo} x_{eox} x_{ox0} x_{x01}$ 
 $x^{0i+)n2} x^{i+)n2} x^{n2} x^{2i+)n}$ 
 $x_{34}^{2i+)n}$ 
 $x^{0\text{)}\text{)}^2} x^{x\text{)}\text{)}^2} x^{x^2} x^{2\text{)}\text{)}^2}$ 
 $x_{34}^{2\text{)}\text{)}^2}$ 
\end{document}
```

$$x_{012} x_{123} x_{234} x_{345} x_{456} x_{567} x_{678} x_{789} x_{89+}$$
$$x_{9+-} x_{+-(} x_{-(= } x_{(=) } x_{=)a} x_{)ae} x_{aeo} x_{eox} x_{ox0} x_{x01}$$
$$x^{0i+)n2} x^{i+)n2} x^{n2} x^{2i+)n}$$
$$x_{34}^{2i+)n}$$

## 81 Test 205a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\iiint_V\]
\removenolimits\iiint
\[\iiint_V\]
\addnolimits\iiint
\[\iiint_V\]
\end{document}
```

$$\iiint_V$$

$$\iiint_V$$

$$\iiint_V$$

## 82 Test 500a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont[Colour=000000]{Cambria Math}
\setmathfont[range={\mathop}, Colour=FF0000]{Cambria Math}
\setmathfont[range={\equal}, Colour=009900]{Cambria Math}
\setmathfont[range={\mathopen,\mathclose},
  Colour=0000FF]{Cambria Math}
\setlength\parskip{12pt}
\begin{document}
\[
F(s)=\mathscr{L}\left\{f(t)\right\}=
\int_0^\infty e^{-st}f(t)\,dt
\]
\end{document}
```

$$F(s) = \mathcal{L}\{f(t)\} = \int_0^\infty e^{-st} f(t) dt$$

## 83 Test 501a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont[Colour=000000]{Cambria Math}
\setmathfont[range=\mathscr, Colour=FF0000]{Cambria Math}
\setmathfont[range=\mathfrak, Colour=0000FF]{Cambria Math}
\begin{document}
\[\text{abcdefghijklmnopqrstuvwxyz}\]
\[\mathscr{\text{abcdefghijklmnopqrstuvwxyz}}\]
\[\mathfrak{\text{abcdefghijklmnopqrstuvwxyz}}\]
\[\text{ABCDEFGHIJKLMNOPQRSTUVWXYZ}\]
\[\mathscr{ABCDEFGHIJKLMNOPQRSTUVWXYZ}\]
\[\mathfrak{ABCDEFGHIJKLMNOPQRSTUVWXYZ}\]
\end{document}
```

abcdefghijklmnopqrstuvwxyz

*abcdefghijklmnopqrstuvwxyz*

*abcdefghijklmnopqrstuvwxyz*

ABCDEFGHIJKLMNOPQRSTUVWXYZ

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*

*ABCDEFGHIJKLMNOPQRSTUVWXYZ*