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

abcdef ghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdef ghijklmnopqrstuvwxyz

2 Test 001b

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdef ghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdef ghijklmnopqrstuvwxyz

3 Test 001c

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdef ghijklmnopqrstuvwxyz

4 Test 001d

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdef ghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdef ghijklmnopqrstuvwxyz

5 Test 001e

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμνξοπωρρςστυφφχψω ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμνξοπωρρςστυφφχψω

7 Test 002b

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμνξοπωρρςστυφφχψω ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμνξοπωρρςστυφφχψω

8 Test 002c

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμνξοπωροςστυφφχψω

9 Test 002d

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω

10 Test 002e

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω

11 Test 003a

```
\input{umtest-preamble}
\usepackage[bold-style=TeX]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\LATINmathbfup\]
\[\LATINmathbfit\]
\[\latinmathbfup\]
\[\latinmathbfit\]
\[\numbersmathbfup\]
\end{document}
```

12 Test 003b

```
\input{umtest-preamble}
\usepackage[bold-style=TeX]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\GREEKmathbfup\]
\[\GREEKmathbfit\]
\[\greekmathbfup\]
\[\greekmathbfit\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμνξοπωροςστυφφχψω αβγδεεζηθθικκλμνξοπωροςστυφφχψω

13 Test 003c

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

0123456789

14 Test 003d

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω αβγδεεζηθθικκλμυξοπωροςστυφφχψω

15 Test 003e

```
\input{umtest-preamble}
\usepackage[bold-style=ISO]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\LATINmathbfup\]
\[\LATINmathbfit\]
\[\latinmathbfup\]
\[\latinmathbfit\]
\[\numbersmathbfup\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

0123456789

16 Test 003f

```
\input{umtest-preamble}
\usepackage[bold-style=ISO]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\GREEKmathbfup\]
\[\GREEKmathbfit\]
\[\greekmathbfup\]
\[\greekmathbfit\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω αβγδεεζηθθικκλμυξοπωροςστυφφχψω

17 Test 003g

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

18 Test 003h

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμνξοπωροςστυφφχψω αβγδεεζηθθικκλμνξοπωροςστυφφχψω

19 Test 003i

```
\input{umtest-preamble}
\usepackage[bold-style=upright]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\LATINmathbfup\]
\[\LATINmathbfit\]
\[\latinmathbfup\]
\[\latinmathbfit\]
\[\numbersmathbfup\]
\end{document}
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

0123456789

20 Test 003j

\input{umtest-preamble}
\usepackage[bold-style=upright]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\GREEKmathbfup\]
\[\GREEKmathbfit\]
\[\greekmathbfup\]
\[\greekmathbfit\]
\end{document}

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω αβγδεεζηθθικκλμυξοπωροςστυφφχψω

21 Test 003k

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

0123456789

22 Test 0031

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμνξοπωροςστυφφχψω αβγδεεζηθθικκλμνξοπωροςστυφφχψω

23 Test 003m

```
\input{umtest-preamble}
\usepackage[bold-style=literal]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\LATINmathbfup\]
\[\LATINmathbfit\]
\[\latinmathbfup\]
\[\latinmathbfit\]
\[\numbersmathbfup\]
\end{document}
```

24 Test 003n

```
\input{umtest-preamble}
\usepackage[bold-style=literal]{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\GREEKmathbfup\]
\[\GREEKmathbfit\]
\[\greekmathbfup\]
\[\greekmathbfit\]
\end{document}
```

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω αβγδεεζηθθικκλμυξοπωροςστυφφχψω

25 Test 003o

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

0123456789

26 Test 003p

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικκλμνξοπωροςστυφφχψω
αβγδεεζηθθικκλμνξοπωροςστυφφχψω

27 Test 004a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

0123456789

28 Test 004b

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

0123456789

29 Test 004c

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

30 Test 004d

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

0123456789

31 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

32 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}
```

33 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

34 Test 005b

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθ9ικικλμνξοπωροςστυφ9χψω αβγδεεζηθ9ικικλμνξοπωροςστυφ9χψω

35 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}
```

36 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}
```

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγ∂εεζηθ9ικκλμνξοπωροςστυφφχψω
αβγ∂εεζηθ9ικκλμνξοπωροςστυφφχψω

37 Test 005e

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

0123456789

38 Test 005f

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγ∂εεζηθθικιλμνζοπωρρςστυφθχψω
αβγ∂εεζηθθικιλμνζοπωρρςστυφθχψω

39 Test 005g

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

abcdefghijklmnopqrstuvwxyz

0123456789

40 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}
```

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικιλμνζοπωρος στυφφχψω
αβγδεεζηθθικιλμνζοπωρος στυφφχψω

41 Test 005i

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

42 Test 005j

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ

αβγδεεζηθθικικλμνξοπωροςστυφθχψω

αβγδεεζηθθικικλμνζοπωροςστυφθχψω

43 Test 005k

```
\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

44 Test 0051

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ
αβγδεεζηθθικικλμινζοπωρος στυφφχιμω
αβγδεεζηθθικικλμινζοπωρος στυφφχιμω

45 Test 010a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

46 Test 010b

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ
abcdefghijklmnopqrstuvwxyz

47 Test 010c

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

ABEDEFGHIJKEMNDPQRSTUBWXY3

abcdefghijkImnopqrstubwxy3

abcdefghijkImnopqrstubwxy3

48 Test 010d

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

UBCDEFGHIJKLMNDPQHSTUBMXYJ3

abcdefghijtImnopqrstubwxyj

49 Test 011a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz

50 Test 011b

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω

51 Test 012a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

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ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdef ghijklmnopqrstuvwxyz

52 Test 012b

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμνξοπωρρςστυφφχψω ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμνξοπωρρςστυφφχψω

53 Test 013a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

54 Test 013b

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

0123456789 0123456789

55 Test 013c

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz

56 Test 013d

```
\label{eq:linear_cont} $$ \sup_{\alpha \in \mathbb{R}^{\times}} \sup_{\alpha \in \mathbb{R}^{\times}} \sup_{\alpha \in \mathbb{R}^{\times}} \sup_{\alpha \in \mathbb{R}^{\times}} \left[ \mathbb{STIXGeneral} \right] $$ \left[ \mathbb{S
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57 Test 013e

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

Ddeij Ddeij

58 Test 014a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

59 Test 014b

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

0123456789

0123456789

60 Test 014c

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz

61 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

62 Test 015b

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz

63 Test 016a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz

64 Test 016b

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

0123456789 0123456789

65 Test 016c

\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Asana Math}
\begin{document}
\[\LATINmathtt\]
\[\latinmathtt\]
\end{document}

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz

66 Test 017a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

67 Test 017b

\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\LATINmathbfscr\]
\[\latinmathbfscr\]
\end{document}

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

68 Test 017c

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

ABEDEFGHIJKEMADPQRSTUVWXYJ

ABEDEFGHIJKIMOPQTSTUVWXYJ

ABEDEFGHIJKIMOPQTSTUVWXYJ

69 Test 017d

\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\LATINmathbffrak\]
\[\latinmathbffrak\]
\end{document}

ABCDEFGHIJKEMNOPQRSTUBWXY3 abcdefghijkImnopqrstubwxy3

70 Test 018a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz 0123456789

71 Test 018b

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΎΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΎΦΧΨΩ

αβγδεεζηθθικκλμνξοπωροςστυφφχψω

72 Test 019a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz
0123456789

73 Test 019b

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

$AB\Gamma\Delta EZH\Theta\Theta IK\Lambda MN\Xi O\Pi P\Sigma TY\Phi X\Psi\Omega$

αβγδεεζηθθικκλμυξοπωροςστυφφχψω ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθθικκλμυξοπωροςστυφφχψω

74 Test 020a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz ABCDEFGHIJKLMNOPQRSTUVWXYZ abcdefghijklmnopqrstuvwxyz

0123456789

75 Test 020b

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθδικχλμυξοπωροςστυφφχψω ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθδικχλμυξοπωροςστυφφχψω

76 Test 021a

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

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdefghijklmnopqrstuvwxyz

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abcdefghijklmnopqrstuvwxyz

0123456789

77 Test 021b

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

ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθδικκλμυξοπωροςστυφφχψω ΑΒΓΔΕΖΗΘΘΙΚΛΜΝΞΟΠΡΣΤΥΦΧΨΩ αβγδεεζηθδικκλμυξοπωροςστυφφχψω

78 Test 030a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{FreeSerif}
\begin{document}
\[20\]
\[20\]
\[\mathup{20}\]
\[\mathup{20}\]
\end{document}
```

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79 Test 031a

```
\input{umtest-preamble}
\usepackage[nabla=upright] {unicode-math}
\setmathfont{Free Serif}
\begin{document}
\[22 \quad 22 \quad 22\]
\[22 \quad \mathbf{22} \quad \mathbfsf{22}\]
\[\mathup{22} \quad \mathbfit{22}\]
\[\mathbfup{22} \quad \mathbfit{22}\]
\[\mathbfsfup{22} \quad \mathbfsfit{22}\]
\[\mathbfsfup{22} \quad \mathbfsfit{22}\]
\[\mathbfsfup{22} \quad \mathbfsfit{22}\]
\end{document}
```

\textstyle \textstyle

80 Test 031b

```
\input{umtest-preamble}
\usepackage[nabla=italic] {unicode-math}
\setmathfont{Free Serif}
\begin{document}
\[22 \quad 22 \quad 22\]
\[22 \quad \mathbf{22} \quad \mathbfsf{22}\]
\[\mathup{22} \quad \mathbfit{22}\]
\[\mathbfup{22} \quad \mathbfit{22}\]
\[\mathbfsfup{22} \quad \mathbfsfit{22}\]
\[\mathbfsfup{22} \quad \mathbfsfit{22}\]
\[\mathbfsfup{22} \quad \mathbfsfit{22}\]
\end{document}
```

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81 Test 031c

```
\input{umtest-preamble}
\usepackage[nabla=literal] {unicode-math}
\setmathfont{Free Serif}
\begin{document}
\[22 \quad 22 \quad 22\]
\[22 \quad \mathbf{22} \quad \mathbfsf{22}\]
\[\mathup{22} \quad \mathbfsf{22}\]
\[\mathbfup{22} \quad \mathbfit{22}\]
\[\mathbfsfup{22} \quad \mathbfsfit{22}\]
```

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82 Test 032a

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83 Test 032b

84 Test 032c

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85 Test 033a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\begin{document}
\setmathfont[math-style=TeX]{Free Serif}
\[12\quad 22\]
\[\mathup{12}\quad \mathup{22}\]
\[\mathit{12}\quad \mathit{22}\]
\setmathfont[math-style=upright]{Free Serif}
\[12\quad 22\]
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\[\mathit{12}\quad \mathit{22}\]
\[\mathit{12}\quad \mathit{22}\quad \mathit{22}\]
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```

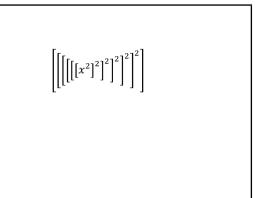
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86 Test 100a

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

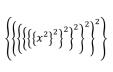
87 Test 100b

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



88 Test 100c

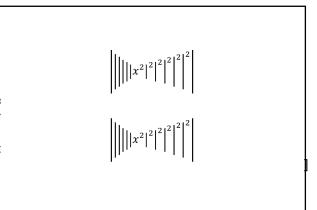
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[\left\{ \left\{ \left\{ \left\{ \left\\ \left\\ \right\\}^2 \right\\}^2 \right\\}^2 \right\\}^2 \right\\}^2 \right\\}^2



89 Test 100d

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

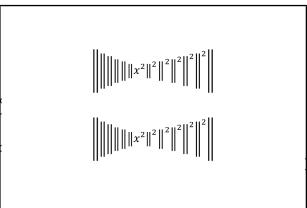
\[\left\vert \left\vert \left\vert
\right\vert^2 \right\vert^2 \right\vert^2
\end{document}



90 Test 100e

\input{umtest-preamble}
\usepackage{unicode-math}

```
\setmathfont{Cambria Math}
\begin{document}
\[ \left2 \left2 \left2 \left2 \left2 \left2 \right2^2 \r
```



91 Test 101a

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

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

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

92 Test 102a

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

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

93 Test 150a

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

```
∫ ∫...∫
```

94 Test 151a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ \hat i \qquad \hat x \qquad \hat M \qquad \
[ \widehat i \qquad \widehat x \qquad \widehat \
[ \tilde i \qquad \tilde x \qquad \tilde M \c\
[ \widetilde i \qquad \widetilde x \qquad \wi\end{document}
```

```
î
              â
                             \widehat{M}
                                              \widehat{x+y}
î
              â
                             M
                                              \widehat{x+y}
ĩ
              \tilde{x}
                             \widetilde{M}
                                              \widetilde{x+y}
ĩ
              \tilde{x}
                             \widetilde{M}
                                              \widetilde{x+y}
```

95 Test 200a

```
\input{umtest-preamble}
\usepackage{amsmath,unicode-math}
\setmathfont{Cambria Math}
\begin{document}
  [${x\prime\prime\prime}$]
  [${x\prime\prime\prime\prime\prime}$]
  [${x'}$]
  [${x'''}$1
  [${x''''}$]
  [${x2}$]
  [${x222}$]
  [${x22'2\prime2}$]
  $x2222$
  $x2222$
  $x22$
  $x2$
\end{document}
```

96 Test 200b

```
\input{umtest-preamble}
\usepackage{amsmath,unicode-math}
\setmathfont{Asana Math}
\begin{document}
                                               [${x\backprime\backprime\$]
  [${x\backprime\backprime\backprime\backprime
  [${x`}$]
  [${x```}$]
[${x````}$]
  [${x2}$]
  [${x???}$]
  [${x22\2\backprime2}$]
  $x`222$
  $x222`$
  $x22$
  $x2$
\end{document}
```

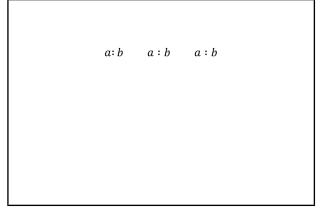
97 Test 201a

```
\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 + x}}}
```

98 Test 202a

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



99 Test 202b

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

a:b a:b a:b

100 Test 203a

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

a - b a - b

101 Test 204a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\setlength\parskip{12pt}
\begin{document}
$x_{012}$ $x_{123}$ $x_{234}$ $x_{345}$ $x_{456}$ $x_{567}$ $x_{67}$
$x_{9+-}$ $x_{+-($ $x_{-(=}$ $x_{(=)}$ $x_{=)})?$ $x_{2})?$ $x_{2}?$
$x_{0}?+)?2$ $x_{2}?* $x_{2}?* $x_{2}?*)?$
$x_{34}^2?*+)?$
\end{document}
```

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

102 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}

$\iiint_{\mathcal{V}}$ $\iiint_{\mathcal{V}}$

103 Test 206a

\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[A+B+\dots+Z\]
\[(A+B+\dots)\]
\[(A+B+\cdots)\]
\end{document}

$A + B + \dots + Z$ $(A + B + \dots)$ $(A + B + \dots)$

104 Test 206b

\input{umtest-preamble}
\usepackage{amsmath}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[A+B+\dots+Z\]
\[(A+B+\cdots)\]
\[(A+B+\cdots)\]
\end{document}

$$A + B + \dots + Z$$
$$(A + B + \dots)$$
$$(A + B + \dots)$$

105 Test 206c

```
\input{umtest-preamble}
\usepackage{amsmath}
\usepackage{unicode-math}
\setmathfont{Cambria Math}
\begin{document}
\[ a\percent b \% c \]
\[ a\mathdollar b \$ c \]
\[ a\ampersand b \& c \]
\[ a\octothorpe b \# c \]
\end{document}
```

a%b%c a\$b\$c a&b&c a#b#c

106 Test 207a

```
\frac{1}{4}\frac{1}{2}\frac{3}{4}\frac{1}{7}\frac{1}{9}\frac{1}{10}\frac{1}{3}\frac{2}{3}\frac{1}{5}\frac{2}{5}\frac{3}{5}\frac{4}{5}\frac{1}{6}\frac{5}{6}\frac{1}{8}\frac{3}{8}\frac{5}{8}\frac{7}{8}
\frac{1}{4}\frac{1}{2}\frac{3}{4}\frac{1}{7}\frac{1}{9}\frac{1}{10}\frac{1}{3}\frac{2}{3}\frac{1}{5}\frac{2}{5}\frac{3}{5}\frac{4}{5}\frac{1}{6}\frac{5}{6}\frac{1}{8}\frac{3}{8}\frac{5}{8}\frac{7}{8}
```

107 Test 300a

 $123456789^{\substack{123456789\\123456789}}$

108 Test 400a

```
\input{umtest-preamble}
\usepackage[trace=on]{unicode-math}
\setmainfont{TeX Gyre Pagella}
\setsansfont{TeX Gyre Adventor}
\setmonofont{TeX Gyre Cursor}
\setmathfont{Cambria Math}
\usepackage{url}
\begin{document}
\centering\obeylines
\url{http://www.lmgtfy.com/}
\url{?q="~!@#$%^&*()<>`'}
\urlstyle{rm}
\url{http://www.lmgtfy.com/}
\url{?q="~!@#$%^&*()<>`'}
\urlstyle{sf}
\url{http://www.lmgtfy.com/}
\url{?q="~!@#$%^&*()<>`'}
\end{document}
```

 $\label{eq:complex} $$ \begin{array}{ll} \text{http://www.lmgtfy.com/} \\ ?q="\sim!@\#\$\%^&*()<>`' \\ \text{http://www.lmgtfy.com/} \\ ?q="\sim!@\#\$\%^&*()<>`' \\ \text{http://www.lmgtfy.com/} \\ ?q="\sim!@\#\$\%^&*()<>`' \\ \end{array}$

109 Test 401a

$$x = 1.23$$
 $x = 1,23$

$$x = 1.23$$
 $x = 1,23$

110 Test 500a

$$F(s) = \mathcal{L}{f(t)} = \int_{0}^{\infty} e^{-st} f(t) dt$$

111 Test 501a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont[Colour=000000]{Cambria Math}
\setmathfont[range=\mathscr, Colour=FF0000]{Ca}
\setmathfont[range=\mathfrak, Colour=0000FF]{0}
\begin{document}
\[\latintext\]
\[\mathscr{\latintext}\]
\[\mathfrak{\latintext}\]
\[\mathfrak{\latintext}\]
\[\mathscr{\LATINmath}\]
\[\mathfrak{\LATINmath}\]
\[\mathfrak{\LATINmath}\]
\[\mathfrak{\LATINmath}\]
\[\mathfrak{\document}
```

abcdefg hijklm nop qr stuvw xyz

abcdefghijklmnopqrstuvwxyz
abcdefghijflmnopqrstuvwxyz
ABCDEFGHIJKLMNOPQRSTUVWXYZ
ABCDEFGHIJKLMNOPQRSTUVWXYZ

UBCDEFG5TJRLMNDPQRETUBWXY3

112 Test 501b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont[Colour=000000]{Cambria Math}
\setmathfont[range=\mathscr, Colour=FF0000]{Te}
\begin{document}
\[\latintext\]
\[\mathscr{\latintext}\]
\[\LATINmath\]
\[\mathscr{\LATINmath}\]
\end{document}
```

abcdefghijklm nop qr stuvw xyz

abcdefghijk[mnopqrstuvwxyz

ABCDEFGHIJKLMNOPQRSTUVWXYZ

ABCDEFGHIJKLMNOPQRSTUVWXYZ

113 Test 501d

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont[Colour=330000]{Cambria Math}
\setmathfont[range=\mathit/{latin}, Colour=666]
\setmathfont[range=\mathit/{Greek}, Colour=996]
\setmathfont[range=\mathit/{greek}, Colour=BB6]
\setmathfont[range=\mathit/{greek}, Colour=BB6]
\setmathfont[range=\mathit/{num}, Colour=EE006]
\begin{document}
\[\mathit{\LATINtext}\]
\[\mathit{\latintext}\]
\[\mathit{\GREEKtext}\]
\[\mathit{\greektext}\]
\[\mathit{\greektext}\]
\[\mathit{\greektext}\]
\[\mathit{\greektext}\]
\[\mathit{\document}\]
\[\mat
```

ABCDEFGHIJKLMNOPQRSTUVWXYZ

abcdef ghijklmnopqrstuvwxyz $AB\Gamma\Delta EZH\Theta\ThetaIK\Lambda MNΞO\PiP\Sigma TY\Phi X\Psi\Omega$ $\alpha\beta\gamma\delta\varepsilon\epsilon\zeta\eta\theta\varthetaικκλμν\xiοπ\varpiροςστυφφχψω$ 0123456789

114 Test 502a

```
\input{umtest-preamble}
\usepackage{unicode-math}
\setmathfont{STIXGeneral}
\setmathfont
    [range={\mathit,\mathsfit,\mathscr}]
   {STIXGeneral-Italic}
\setmathfont
    [range={\mathbfup,\mathbffrak,
        \mathbfscr,\mathbfsfup}]
    {STIXGeneral-Bold}
\setmathfont
   [range={\mathbfit,\mathbfsfit}]
    {STIXGeneral-BoldItalic}
\begin{document}
\[\mathit{A}\mathup{A}
  \mathsfup{A}\mathsfit{A}\]
\[ \mathbf{A} \
\[\mathbfup{A}\mathbfit{A}
  \mathbfsfup{A}\mathbfsfit{A}\]
\[\mathbfscr{A}\mathbffrak{A}\]
\end{document}
```

AAAA ANAA AN

115 Test 502b

```
\input{umtest-preamble}
\usepackage{unicode-math}
\begin{document}
Default:
1/
(a+b)^2 = \sqrt{c+d}
\setmathfont[range={\mathup}]{Linux Libertine
\setmathfont[range={\mathit}]{Linux Libertine
Example of a non-math OpenType font:
1
(a+b)^2 = \sqrt{c+d}
\]
With symbols:
\setmathfont[range={`\+,`\=,`\(,`\)}]{Linux L
(a+b)^2 = \sqrt{c+d}
\]
\end{document}
```

Default:

$$(a+b)^2 = \sqrt{c+d}$$

Example of a non-math OpenType font:

$$(a+b)^2 = \sqrt{c+d}$$

With symbols:

$$(a+b)^2 = \sqrt{c+d}$$