

## Mathematical Alphanumeric Symbols

**Range: 1D400–1D7FF**

This file contains an excerpt from the character code tables and list of character names for *The Unicode Standard, Version 18.0 ALPHA REVIEW DRAFT*

Characters in this chart that are new for The Unicode Standard, Version 18.0 are shown in conjunction with any existing characters. For ease of reference, the new characters have been highlighted in the chart grid and in the names list. This file will not be updated with errata, or when additional characters are assigned to the Unicode Standard.

See <https://www.unicode.org/errata/> for an up-to-date list of errata.

See <https://www.unicode.org/charts/> for access to a complete list of the latest character code charts. See <https://www.unicode.org/charts/PDF/Unicode-18.0/> for charts showing only the characters added in Unicode 18.0. See <https://www.unicode.org/Public/18.0.0/charts/> for a complete archived file of character code charts for Unicode 18.0. See <https://www.unicode.org/charts/About.html#Conventions> for conventions used in these code charts, and other general information.

### Disclaimer

These charts are provided as the online reference to the character contents of the Unicode Standard, Version 18.0 but do not provide all the information needed to fully support individual scripts using the Unicode Standard. For a complete understanding of the use of the characters contained in this file, please consult the appropriate sections of The Unicode Standard, Version 18.0, online at <https://www.unicode.org/versions/Unicode18.0.0/>, as well as the Unicode Standard Annexes, the other Unicode Technical Reports and Standards, and the Unicode Character Database, which are available online.

See <https://www.unicode.org/ucd/> and <https://www.unicode.org/reports/>

A thorough understanding of the information contained in these additional sources is required for a successful implementation.

### Fonts

The shapes of the reference glyphs used in these code charts are not prescriptive. Considerable variation is to be expected in actual fonts.

See <https://www.unicode.org/charts/fonts.html> for a list.

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|   | 1D40              | 1D41              | 1D42              | 1D43              | 1D44              | 1D45              | 1D46              | 1D47              | 1D48              | 1D49              | 1D4A              | 1D4B              | 1D4C              | 1D4D              | 1D4E              | 1D4F              |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0 | <b>A</b><br>1D400 | <b>Q</b><br>1D410 | <b>g</b><br>1D420 | <b>w</b><br>1D430 | <b>M</b><br>1D440 | <b>c</b><br>1D450 | <b>s</b><br>1D460 | <b>I</b><br>1D470 | <b>Y</b><br>1D480 | <b>o</b><br>1D490 |                   | <b>U</b><br>1D4B0 | <b>k</b><br>1D4C0 | <b>A</b><br>1D4D0 | <b>Q</b><br>1D4E0 | <b>g</b><br>1D4F0 |
| 1 | <b>B</b><br>1D401 | <b>R</b><br>1D411 | <b>h</b><br>1D421 | <b>x</b><br>1D431 | <b>N</b><br>1D441 | <b>d</b><br>1D451 | <b>t</b><br>1D461 | <b>J</b><br>1D471 | <b>Z</b><br>1D481 | <b>p</b><br>1D491 |                   | <b>V</b><br>1D4B1 | <b>ℓ</b><br>1D4C1 | <b>B</b><br>1D4D1 | <b>R</b><br>1D4E1 | <b>h</b><br>1D4F1 |
| 2 | <b>C</b><br>1D402 | <b>S</b><br>1D412 | <b>i</b><br>1D422 | <b>y</b><br>1D432 | <b>O</b><br>1D442 | <b>e</b><br>1D452 | <b>u</b><br>1D462 | <b>K</b><br>1D472 | <b>a</b><br>1D482 | <b>q</b><br>1D492 | <b>G</b><br>1D4A2 | <b>W</b><br>1D4B2 | <b>m</b><br>1D4C2 | <b>C</b><br>1D4D2 | <b>S</b><br>1D4E2 | <b>i</b><br>1D4F2 |
| 3 | <b>D</b><br>1D403 | <b>T</b><br>1D413 | <b>j</b><br>1D423 | <b>z</b><br>1D433 | <b>P</b><br>1D443 | <b>f</b><br>1D453 | <b>v</b><br>1D463 | <b>L</b><br>1D473 | <b>b</b><br>1D483 | <b>r</b><br>1D493 |                   | <b>X</b><br>1D4B3 | <b>n</b><br>1D4C3 | <b>D</b><br>1D4D3 | <b>T</b><br>1D4E3 | <b>j</b><br>1D4F3 |
| 4 | <b>E</b><br>1D404 | <b>U</b><br>1D414 | <b>k</b><br>1D424 | <b>A</b><br>1D434 | <b>Q</b><br>1D444 | <b>g</b><br>1D454 | <b>w</b><br>1D464 | <b>M</b><br>1D474 | <b>c</b><br>1D484 | <b>s</b><br>1D494 |                   | <b>Y</b><br>1D4B4 |                   | <b>E</b><br>1D4D4 | <b>U</b><br>1D4E4 | <b>k</b><br>1D4F4 |
| 5 | <b>F</b><br>1D405 | <b>V</b><br>1D415 | <b>l</b><br>1D425 | <b>B</b><br>1D435 | <b>R</b><br>1D445 |                   | <b>x</b><br>1D465 | <b>N</b><br>1D475 | <b>d</b><br>1D485 | <b>t</b><br>1D495 | <b>J</b><br>1D4A5 | <b>Z</b><br>1D4B5 | <b>p</b><br>1D4C5 | <b>F</b><br>1D4D5 | <b>V</b><br>1D4E5 | <b>ℓ</b><br>1D4F5 |
| 6 | <b>G</b><br>1D406 | <b>W</b><br>1D416 | <b>m</b><br>1D426 | <b>C</b><br>1D436 | <b>S</b><br>1D446 | <b>i</b><br>1D456 | <b>y</b><br>1D466 | <b>O</b><br>1D476 | <b>e</b><br>1D486 | <b>u</b><br>1D496 | <b>K</b><br>1D4A6 | <b>a</b><br>1D4B6 | <b>q</b><br>1D4C6 | <b>G</b><br>1D4D6 | <b>W</b><br>1D4E6 | <b>m</b><br>1D4F6 |
| 7 | <b>H</b><br>1D407 | <b>X</b><br>1D417 | <b>n</b><br>1D427 | <b>D</b><br>1D437 | <b>T</b><br>1D447 | <b>j</b><br>1D457 | <b>z</b><br>1D467 | <b>P</b><br>1D477 | <b>f</b><br>1D487 | <b>v</b><br>1D497 |                   | <b>ℓ</b><br>1D4B7 | <b>r</b><br>1D4C7 | <b>H</b><br>1D4D7 | <b>X</b><br>1D4E7 | <b>n</b><br>1D4F7 |
| 8 | <b>I</b><br>1D408 | <b>Y</b><br>1D418 | <b>o</b><br>1D428 | <b>E</b><br>1D438 | <b>U</b><br>1D448 | <b>k</b><br>1D458 | <b>A</b><br>1D468 | <b>Q</b><br>1D478 | <b>g</b><br>1D488 | <b>w</b><br>1D498 |                   | <b>c</b><br>1D4B8 | <b>s</b><br>1D4C8 | <b>I</b><br>1D4D8 | <b>Y</b><br>1D4E8 | <b>o</b><br>1D4F8 |
| 9 | <b>J</b><br>1D409 | <b>Z</b><br>1D419 | <b>p</b><br>1D429 | <b>F</b><br>1D439 | <b>V</b><br>1D449 | <b>l</b><br>1D459 | <b>B</b><br>1D469 | <b>R</b><br>1D479 | <b>h</b><br>1D489 | <b>x</b><br>1D499 | <b>N</b><br>1D4A9 | <b>d</b><br>1D4B9 | <b>t</b><br>1D4C9 | <b>J</b><br>1D4D9 | <b>Z</b><br>1D4E9 | <b>p</b><br>1D4F9 |
| A | <b>K</b><br>1D40A | <b>a</b><br>1D41A | <b>q</b><br>1D42A | <b>G</b><br>1D43A | <b>W</b><br>1D44A | <b>m</b><br>1D45A | <b>C</b><br>1D46A | <b>S</b><br>1D47A | <b>i</b><br>1D48A | <b>y</b><br>1D49A | <b>O</b><br>1D4AA |                   | <b>u</b><br>1D4CA | <b>K</b><br>1D4DA | <b>a</b><br>1D4EA | <b>q</b><br>1D4FA |
| B | <b>L</b><br>1D40B | <b>b</b><br>1D41B | <b>r</b><br>1D42B | <b>H</b><br>1D43B | <b>X</b><br>1D44B | <b>n</b><br>1D45B | <b>D</b><br>1D46B | <b>T</b><br>1D47B | <b>j</b><br>1D48B | <b>z</b><br>1D49B | <b>P</b><br>1D4AB | <b>ℓ</b><br>1D4BB | <b>v</b><br>1D4CB | <b>L</b><br>1D4DB | <b>ℓ</b><br>1D4EB | <b>r</b><br>1D4FB |
| C | <b>M</b><br>1D40C | <b>c</b><br>1D41C | <b>s</b><br>1D42C | <b>I</b><br>1D43C | <b>Y</b><br>1D44C | <b>o</b><br>1D45C | <b>E</b><br>1D46C | <b>U</b><br>1D47C | <b>k</b><br>1D48C | <b>A</b><br>1D49C | <b>Q</b><br>1D4AC |                   | <b>w</b><br>1D4CC | <b>M</b><br>1D4DC | <b>c</b><br>1D4EC | <b>s</b><br>1D4FC |
| D | <b>N</b><br>1D40D | <b>d</b><br>1D41D | <b>t</b><br>1D42D | <b>J</b><br>1D43D | <b>Z</b><br>1D44D | <b>p</b><br>1D45D | <b>F</b><br>1D46D | <b>V</b><br>1D47D | <b>l</b><br>1D48D |                   |                   | <b>h</b><br>1D4BD | <b>x</b><br>1D4CD | <b>N</b><br>1D4DD | <b>d</b><br>1D4ED | <b>t</b><br>1D4FD |
| E | <b>O</b><br>1D40E | <b>e</b><br>1D41E | <b>u</b><br>1D42E | <b>K</b><br>1D43E | <b>a</b><br>1D44E | <b>q</b><br>1D45E | <b>G</b><br>1D46E | <b>W</b><br>1D47E | <b>m</b><br>1D48E | <b>C</b><br>1D49E | <b>S</b><br>1D4AE | <b>i</b><br>1D4BE | <b>y</b><br>1D4CE | <b>O</b><br>1D4DE | <b>e</b><br>1D4EE | <b>u</b><br>1D4FE |
| F | <b>P</b><br>1D40F | <b>f</b><br>1D41F | <b>v</b><br>1D42F | <b>L</b><br>1D43F | <b>b</b><br>1D44F | <b>r</b><br>1D45F | <b>H</b><br>1D46F | <b>X</b><br>1D47F | <b>n</b><br>1D48F | <b>D</b><br>1D49F | <b>T</b><br>1D4AF | <b>j</b><br>1D4BF | <b>ℵ</b><br>1D4CF | <b>P</b><br>1D4DF | <b>ℓ</b><br>1D4EF | <b>v</b><br>1D4FF |

|   | 1D50                                                                                | 1D51                                                                                | 1D52              | 1D53                                                                                | 1D54                                                                                | 1D55                                                                              | 1D56              | 1D57              | 1D58              | 1D59              | 1D5A              | 1D5B              | 1D5C              | 1D5D              | 1D5E              | 1D5F              |
|---|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-------------------|-------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0 | <i>w</i><br>1D500                                                                   | <i>M</i><br>1D510                                                                   | <i>c</i><br>1D520 | <i>z</i><br>1D530                                                                   | <i>I</i><br>1D540                                                                   | <i>Y</i><br>1D550                                                                 | <i>o</i><br>1D560 | <i>Œ</i><br>1D570 | <i>U</i><br>1D580 | <i>f</i><br>1D590 | <i>A</i><br>1D5A0 | <i>Q</i><br>1D5B0 | <i>g</i><br>1D5C0 | <i>w</i><br>1D5D0 | <i>M</i><br>1D5E0 | <i>c</i><br>1D5F0 |
| 1 | <i>x</i><br>1D501                                                                   | <i>N</i><br>1D511                                                                   | <i>d</i><br>1D521 | <i>t</i><br>1D531                                                                   | <i>J</i><br>1D541                                                                   |  | <i>p</i><br>1D561 | <i>Œ</i><br>1D571 | <i>W</i><br>1D581 | <i>I</i><br>1D591 | <i>B</i><br>1D5A1 | <i>R</i><br>1D5B1 | <i>h</i><br>1D5C1 | <i>x</i><br>1D5D1 | <i>N</i><br>1D5E1 | <i>d</i><br>1D5F1 |
| 2 | <i>y</i><br>1D502                                                                   | <i>Q</i><br>1D512                                                                   | <i>e</i><br>1D522 | <i>u</i><br>1D532                                                                   | <i>K</i><br>1D542                                                                   | <i>a</i><br>1D552                                                                 | <i>q</i><br>1D562 | <i>Œ</i><br>1D572 | <i>W</i><br>1D582 | <i>m</i><br>1D592 | <i>C</i><br>1D5A2 | <i>S</i><br>1D5B2 | <i>i</i><br>1D5C2 | <i>y</i><br>1D5D2 | <i>O</i><br>1D5E2 | <i>e</i><br>1D5F2 |
| 3 | <i>z</i><br>1D503                                                                   | <i>P</i><br>1D513                                                                   | <i>f</i><br>1D523 | <i>v</i><br>1D533                                                                   | <i>L</i><br>1D543                                                                   | <i>b</i><br>1D553                                                                 | <i>r</i><br>1D563 | <i>Œ</i><br>1D573 | <i>X</i><br>1D583 | <i>n</i><br>1D593 | <i>D</i><br>1D5A3 | <i>T</i><br>1D5B3 | <i>j</i><br>1D5C3 | <i>z</i><br>1D5D3 | <i>P</i><br>1D5E3 | <i>f</i><br>1D5F3 |
| 4 | <i>U</i><br>1D504                                                                   | <i>Q</i><br>1D514                                                                   | <i>g</i><br>1D524 | <i>w</i><br>1D534                                                                   | <i>M</i><br>1D544                                                                   | <i>c</i><br>1D554                                                                 | <i>s</i><br>1D564 | <i>Œ</i><br>1D574 | <i>W</i><br>1D584 | <i>o</i><br>1D594 | <i>E</i><br>1D5A4 | <i>U</i><br>1D5B4 | <i>k</i><br>1D5C4 | <i>A</i><br>1D5D4 | <i>Q</i><br>1D5E4 | <i>g</i><br>1D5F4 |
| 5 | <i>W</i><br>1D505                                                                   |    | <i>h</i><br>1D525 | <i>x</i><br>1D535                                                                   |    | <i>d</i><br>1D555                                                                 | <i>t</i><br>1D565 | <i>Œ</i><br>1D575 | <i>3</i><br>1D585 | <i>p</i><br>1D595 | <i>F</i><br>1D5A5 | <i>V</i><br>1D5B5 | <i>I</i><br>1D5C5 | <i>B</i><br>1D5D5 | <i>R</i><br>1D5E5 | <i>h</i><br>1D5F5 |
| 6 |    | <i>Œ</i><br>1D516                                                                   | <i>i</i><br>1D526 | <i>η</i><br>1D536                                                                   | <i>O</i><br>1D546                                                                   | <i>e</i><br>1D556                                                                 | <i>u</i><br>1D566 | <i>Œ</i><br>1D576 | <i>a</i><br>1D586 | <i>q</i><br>1D596 | <i>G</i><br>1D5A6 | <i>W</i><br>1D5B6 | <i>m</i><br>1D5C6 | <i>C</i><br>1D5D6 | <i>S</i><br>1D5E6 | <i>i</i><br>1D5F6 |
| 7 | <i>Q</i><br>1D507                                                                   | <i>Œ</i><br>1D517                                                                   | <i>j</i><br>1D527 | <i>z</i><br>1D537                                                                   |   | <i>f</i><br>1D557                                                                 | <i>v</i><br>1D567 | <i>Œ</i><br>1D577 | <i>b</i><br>1D587 | <i>r</i><br>1D597 | <i>H</i><br>1D5A7 | <i>X</i><br>1D5B7 | <i>n</i><br>1D5C7 | <i>D</i><br>1D5D7 | <i>T</i><br>1D5E7 | <i>j</i><br>1D5F7 |
| 8 | <i>Œ</i><br>1D508                                                                   | <i>U</i><br>1D518                                                                   | <i>f</i><br>1D528 | <i>A</i><br>1D538                                                                   |  | <i>g</i><br>1D558                                                                 | <i>w</i><br>1D568 | <i>M</i><br>1D578 | <i>c</i><br>1D588 | <i>z</i><br>1D598 | <i>I</i><br>1D5A8 | <i>Y</i><br>1D5B8 | <i>o</i><br>1D5C8 | <i>E</i><br>1D5D8 | <i>U</i><br>1D5E8 | <i>k</i><br>1D5F8 |
| 9 | <i>Œ</i><br>1D509                                                                   | <i>W</i><br>1D519                                                                   | <i>I</i><br>1D529 | <i>B</i><br>1D539                                                                   |  | <i>h</i><br>1D559                                                                 | <i>x</i><br>1D569 | <i>N</i><br>1D579 | <i>d</i><br>1D589 | <i>t</i><br>1D599 | <i>J</i><br>1D5A9 | <i>Z</i><br>1D5B9 | <i>p</i><br>1D5C9 | <i>F</i><br>1D5D9 | <i>V</i><br>1D5E9 | <i>I</i><br>1D5F9 |
| A | <i>Œ</i><br>1D50A                                                                   | <i>W</i><br>1D51A                                                                   | <i>m</i><br>1D52A |  | <i>S</i><br>1D54A                                                                   | <i>i</i><br>1D55A                                                                 | <i>y</i><br>1D56A | <i>Q</i><br>1D57A | <i>e</i><br>1D58A | <i>u</i><br>1D59A | <i>K</i><br>1D5AA | <i>a</i><br>1D5BA | <i>q</i><br>1D5CA | <i>G</i><br>1D5DA | <i>W</i><br>1D5EA | <i>m</i><br>1D5FA |
| B |  | <i>X</i><br>1D51B                                                                   | <i>n</i><br>1D52B | <i>D</i><br>1D53B                                                                   | <i>T</i><br>1D54B                                                                   | <i>j</i><br>1D55B                                                                 | <i>z</i><br>1D56B | <i>P</i><br>1D57B | <i>f</i><br>1D58B | <i>v</i><br>1D59B | <i>L</i><br>1D5AB | <i>b</i><br>1D5BB | <i>r</i><br>1D5CB | <i>H</i><br>1D5DB | <i>X</i><br>1D5EB | <i>n</i><br>1D5FB |
| C |  | <i>W</i><br>1D51C                                                                   | <i>o</i><br>1D52C | <i>E</i><br>1D53C                                                                   | <i>U</i><br>1D54C                                                                   | <i>k</i><br>1D55C                                                                 | <i>U</i><br>1D56C | <i>Q</i><br>1D57C | <i>g</i><br>1D58C | <i>w</i><br>1D59C | <i>M</i><br>1D5AC | <i>c</i><br>1D5BC | <i>s</i><br>1D5CC | <i>I</i><br>1D5DC | <i>Y</i><br>1D5EC | <i>o</i><br>1D5FC |
| D | <i>Œ</i><br>1D50D                                                                   |  | <i>p</i><br>1D52D | <i>F</i><br>1D53D                                                                   | <i>V</i><br>1D54D                                                                   | <i>I</i><br>1D55D                                                                 | <i>W</i><br>1D56D | <i>R</i><br>1D57D | <i>h</i><br>1D58D | <i>x</i><br>1D59D | <i>N</i><br>1D5AD | <i>d</i><br>1D5BD | <i>t</i><br>1D5CD | <i>J</i><br>1D5DD | <i>Z</i><br>1D5ED | <i>p</i><br>1D5FD |
| E | <i>Œ</i><br>1D50E                                                                   | <i>a</i><br>1D51E                                                                   | <i>q</i><br>1D52E | <i>G</i><br>1D53E                                                                   | <i>W</i><br>1D54E                                                                   | <i>m</i><br>1D55E                                                                 | <i>Œ</i><br>1D56E | <i>Œ</i><br>1D57E | <i>i</i><br>1D58E | <i>η</i><br>1D59E | <i>O</i><br>1D5AE | <i>e</i><br>1D5BE | <i>u</i><br>1D5CE | <i>K</i><br>1D5DE | <i>a</i><br>1D5EE | <i>q</i><br>1D5FE |
| F | <i>Œ</i><br>1D50F                                                                   | <i>b</i><br>1D51F                                                                   | <i>r</i><br>1D52F |  | <i>X</i><br>1D54F                                                                   | <i>n</i><br>1D55F                                                                 | <i>Q</i><br>1D56F | <i>Œ</i><br>1D57F | <i>j</i><br>1D58F | <i>z</i><br>1D59F | <i>P</i><br>1D5AF | <i>f</i><br>1D5BF | <i>v</i><br>1D5CF | <i>L</i><br>1D5DF | <i>b</i><br>1D5EF | <i>r</i><br>1D5FF |

|   | 1D60              | 1D61              | 1D62              | 1D63              | 1D64              | 1D65              | 1D66              | 1D67              | 1D68              | 1D69              | 1D6A                                                                                | 1D6B              | 1D6C              | 1D6D              | 1D6E              | 1D6F              |
|---|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------|-------------------------------------------------------------------------------------|-------------------|-------------------|-------------------|-------------------|-------------------|
| 0 | <b>s</b><br>1D600 | <b>I</b><br>1D610 | <b>Y</b><br>1D620 | <b>o</b><br>1D630 | <b>E</b><br>1D640 | <b>U</b><br>1D650 | <b>k</b><br>1D660 | <b>A</b><br>1D670 | <b>Q</b><br>1D680 | <b>g</b><br>1D690 | <b>w</b><br>1D6A0                                                                   | <b>I</b><br>1D6B0 | <b>Ω</b><br>1D6C0 | <b>o</b><br>1D6D0 | <b>q</b><br>1D6E0 | <b>O</b><br>1D6F0 |
| 1 | <b>t</b><br>1D601 | <b>J</b><br>1D611 | <b>Z</b><br>1D621 | <b>p</b><br>1D631 | <b>F</b><br>1D641 | <b>V</b><br>1D651 | <b>I</b><br>1D661 | <b>B</b><br>1D671 | <b>R</b><br>1D681 | <b>h</b><br>1D691 | <b>x</b><br>1D6A1                                                                   | <b>K</b><br>1D6B1 | <b>∇</b><br>1D6C1 | <b>π</b><br>1D6D1 | <b>ϖ</b><br>1D6E1 | <b>Π</b><br>1D6F1 |
| 2 | <b>u</b><br>1D602 | <b>K</b><br>1D612 | <b>a</b><br>1D622 | <b>q</b><br>1D632 | <b>G</b><br>1D642 | <b>W</b><br>1D652 | <b>m</b><br>1D662 | <b>C</b><br>1D672 | <b>S</b><br>1D682 | <b>i</b><br>1D692 | <b>y</b><br>1D6A2                                                                   | <b>Λ</b><br>1D6B2 | <b>α</b><br>1D6C2 | <b>ρ</b><br>1D6D2 | <b>A</b><br>1D6E2 | <b>P</b><br>1D6F2 |
| 3 | <b>v</b><br>1D603 | <b>L</b><br>1D613 | <b>b</b><br>1D623 | <b>r</b><br>1D633 | <b>H</b><br>1D643 | <b>X</b><br>1D653 | <b>n</b><br>1D663 | <b>D</b><br>1D673 | <b>T</b><br>1D683 | <b>j</b><br>1D693 | <b>z</b><br>1D6A3                                                                   | <b>M</b><br>1D6B3 | <b>β</b><br>1D6C3 | <b>ς</b><br>1D6D3 | <b>B</b><br>1D6E3 | <b>Θ</b><br>1D6F3 |
| 4 | <b>w</b><br>1D604 | <b>M</b><br>1D614 | <b>c</b><br>1D624 | <b>s</b><br>1D634 | <b>I</b><br>1D644 | <b>Y</b><br>1D654 | <b>o</b><br>1D664 | <b>E</b><br>1D674 | <b>U</b><br>1D684 | <b>k</b><br>1D694 | <b>ι</b><br>1D6A4                                                                   | <b>N</b><br>1D6B4 | <b>γ</b><br>1D6C4 | <b>σ</b><br>1D6D4 | <b>Γ</b><br>1D6E4 | <b>Σ</b><br>1D6F4 |
| 5 | <b>x</b><br>1D605 | <b>N</b><br>1D615 | <b>d</b><br>1D625 | <b>t</b><br>1D635 | <b>J</b><br>1D645 | <b>Z</b><br>1D655 | <b>p</b><br>1D665 | <b>F</b><br>1D675 | <b>V</b><br>1D685 | <b>l</b><br>1D695 | <b>j</b><br>1D6A5                                                                   | <b>Ξ</b><br>1D6B5 | <b>δ</b><br>1D6C5 | <b>τ</b><br>1D6D5 | <b>Δ</b><br>1D6E5 | <b>T</b><br>1D6F5 |
| 6 | <b>y</b><br>1D606 | <b>O</b><br>1D616 | <b>e</b><br>1D626 | <b>u</b><br>1D636 | <b>K</b><br>1D646 | <b>a</b><br>1D656 | <b>q</b><br>1D666 | <b>G</b><br>1D676 | <b>W</b><br>1D686 | <b>m</b><br>1D696 | <b>ß</b><br>1D6A6                                                                   | <b>O</b><br>1D6B6 | <b>ε</b><br>1D6C6 | <b>υ</b><br>1D6D6 | <b>E</b><br>1D6E6 | <b>Υ</b><br>1D6F6 |
| 7 | <b>z</b><br>1D607 | <b>P</b><br>1D617 | <b>f</b><br>1D627 | <b>v</b><br>1D637 | <b>L</b><br>1D647 | <b>b</b><br>1D657 | <b>r</b><br>1D667 | <b>H</b><br>1D677 | <b>X</b><br>1D687 | <b>n</b><br>1D697 |  | <b>Π</b><br>1D6B7 | <b>ζ</b><br>1D6C7 | <b>φ</b><br>1D6D7 | <b>Z</b><br>1D6E7 | <b>Φ</b><br>1D6F7 |
| 8 | <b>A</b><br>1D608 | <b>Q</b><br>1D618 | <b>g</b><br>1D628 | <b>w</b><br>1D638 | <b>M</b><br>1D648 | <b>c</b><br>1D658 | <b>s</b><br>1D668 | <b>I</b><br>1D678 | <b>Y</b><br>1D688 | <b>o</b><br>1D698 | <b>A</b><br>1D6A8                                                                   | <b>P</b><br>1D6B8 | <b>η</b><br>1D6C8 | <b>χ</b><br>1D6D8 | <b>H</b><br>1D6E8 | <b>X</b><br>1D6F8 |
| 9 | <b>B</b><br>1D609 | <b>R</b><br>1D619 | <b>h</b><br>1D629 | <b>x</b><br>1D639 | <b>N</b><br>1D649 | <b>d</b><br>1D659 | <b>t</b><br>1D669 | <b>J</b><br>1D679 | <b>Z</b><br>1D689 | <b>p</b><br>1D699 | <b>B</b><br>1D6A9                                                                   | <b>Θ</b><br>1D6B9 | <b>θ</b><br>1D6C9 | <b>ψ</b><br>1D6D9 | <b>Θ</b><br>1D6E9 | <b>Ψ</b><br>1D6F9 |
| A | <b>C</b><br>1D60A | <b>S</b><br>1D61A | <b>i</b><br>1D62A | <b>y</b><br>1D63A | <b>O</b><br>1D64A | <b>e</b><br>1D65A | <b>u</b><br>1D66A | <b>K</b><br>1D67A | <b>a</b><br>1D68A | <b>q</b><br>1D69A | <b>Γ</b><br>1D6AA                                                                   | <b>Σ</b><br>1D6BA | <b>ι</b><br>1D6CA | <b>ω</b><br>1D6DA | <b>I</b><br>1D6EA | <b>Ω</b><br>1D6FA |
| B | <b>D</b><br>1D60B | <b>T</b><br>1D61B | <b>j</b><br>1D62B | <b>z</b><br>1D63B | <b>P</b><br>1D64B | <b>f</b><br>1D65B | <b>v</b><br>1D66B | <b>L</b><br>1D67B | <b>b</b><br>1D68B | <b>r</b><br>1D69B | <b>Δ</b><br>1D6AB                                                                   | <b>T</b><br>1D6BB | <b>κ</b><br>1D6CB | <b>ð</b><br>1D6DB | <b>K</b><br>1D6EB | <b>∇</b><br>1D6FB |
| C | <b>E</b><br>1D60C | <b>U</b><br>1D61C | <b>k</b><br>1D62C | <b>A</b><br>1D63C | <b>Q</b><br>1D64C | <b>g</b><br>1D65C | <b>w</b><br>1D66C | <b>M</b><br>1D67C | <b>c</b><br>1D68C | <b>s</b><br>1D69C | <b>E</b><br>1D6AC                                                                   | <b>Υ</b><br>1D6BC | <b>λ</b><br>1D6CC | <b>ε</b><br>1D6DC | <b>Λ</b><br>1D6EC | <b>α</b><br>1D6FC |
| D | <b>F</b><br>1D60D | <b>V</b><br>1D61D | <b>I</b><br>1D62D | <b>B</b><br>1D63D | <b>R</b><br>1D64D | <b>h</b><br>1D65D | <b>x</b><br>1D66D | <b>N</b><br>1D67D | <b>d</b><br>1D68D | <b>t</b><br>1D69D | <b>Z</b><br>1D6AD                                                                   | <b>Φ</b><br>1D6BD | <b>μ</b><br>1D6CD | <b>ϑ</b><br>1D6DD | <b>M</b><br>1D6ED | <b>β</b><br>1D6FD |
| E | <b>G</b><br>1D60E | <b>W</b><br>1D61E | <b>m</b><br>1D62E | <b>C</b><br>1D63E | <b>S</b><br>1D64E | <b>i</b><br>1D65E | <b>y</b><br>1D66E | <b>0</b><br>1D67E | <b>e</b><br>1D68E | <b>u</b><br>1D69E | <b>H</b><br>1D6AE                                                                   | <b>X</b><br>1D6BE | <b>ν</b><br>1D6CE | <b>κ</b><br>1D6DE | <b>N</b><br>1D6EE | <b>γ</b><br>1D6FE |
| F | <b>H</b><br>1D60F | <b>X</b><br>1D61F | <b>n</b><br>1D62F | <b>D</b><br>1D63F | <b>T</b><br>1D64F | <b>j</b><br>1D65F | <b>z</b><br>1D66F | <b>P</b><br>1D67F | <b>f</b><br>1D68F | <b>v</b><br>1D69F | <b>Θ</b><br>1D6AF                                                                   | <b>Ψ</b><br>1D6BF | <b>ξ</b><br>1D6CF | <b>φ</b><br>1D6DF | <b>Ξ</b><br>1D6EF | <b>δ</b><br>1D6FF |

|   | 1D70                   | 1D71                 | 1D72               | 1D73                   | 1D74                 | 1D75                 | 1D76               | 1D77                   | 1D78                 | 1D79               | 1D7A                   | 1D7B                 | 1D7C                                                                                  | 1D7D         | 1D7E         | 1D7F         |
|---|------------------------|----------------------|--------------------|------------------------|----------------------|----------------------|--------------------|------------------------|----------------------|--------------------|------------------------|----------------------|---------------------------------------------------------------------------------------|--------------|--------------|--------------|
| 0 | $\varepsilon$<br>1D700 | $\upsilon$<br>1D710  | $E$<br>1D720       | $Y$<br>1D730           | $\lambda$<br>1D740   | $\epsilon$<br>1D750  | $\Lambda$<br>1D760 | $\alpha$<br>1D770      | $\rho$<br>1D780      | $A$<br>1D790       | $P$<br>1D7A0           | $\eta$<br>1D7B0      | $\chi$<br>1D7C0                                                                       | $2$<br>1D7D0 | $8$<br>1D7E0 | $4$<br>1D7F0 |
| 1 | $\zeta$<br>1D701       | $\varphi$<br>1D711   | $Z$<br>1D721       | $\Phi$<br>1D731        | $\mu$<br>1D741       | $\vartheta$<br>1D751 | $M$<br>1D761       | $\beta$<br>1D771       | $\varsigma$<br>1D781 | $B$<br>1D791       | $\Theta$<br>1D7A1      | $\theta$<br>1D7B1    | $\psi$<br>1D7C1                                                                       | $3$<br>1D7D1 | $9$<br>1D7E1 | $5$<br>1D7F1 |
| 2 | $\eta$<br>1D702        | $\chi$<br>1D712      | $H$<br>1D722       | $X$<br>1D732           | $\nu$<br>1D742       | $\kappa$<br>1D752    | $N$<br>1D762       | $\gamma$<br>1D772      | $\sigma$<br>1D782    | $\Gamma$<br>1D792  | $\Sigma$<br>1D7A2      | $\iota$<br>1D7B2     | $\omega$<br>1D7C2                                                                     | $4$<br>1D7D2 | $0$<br>1D7E2 | $6$<br>1D7F2 |
| 3 | $\theta$<br>1D703      | $\psi$<br>1D713      | $\Theta$<br>1D723  | $\Psi$<br>1D733        | $\xi$<br>1D743       | $\phi$<br>1D753      | $\Xi$<br>1D763     | $\delta$<br>1D773      | $\tau$<br>1D783      | $\Delta$<br>1D793  | $T$<br>1D7A3           | $\kappa$<br>1D7B3    | $\partial$<br>1D7C3                                                                   | $5$<br>1D7D3 | $1$<br>1D7E3 | $7$<br>1D7F3 |
| 4 | $\iota$<br>1D704       | $\omega$<br>1D714    | $I$<br>1D724       | $\Omega$<br>1D734      | $o$<br>1D744         | $\varrho$<br>1D754   | $O$<br>1D764       | $\varepsilon$<br>1D774 | $\upsilon$<br>1D784  | $E$<br>1D794       | $Y$<br>1D7A4           | $\lambda$<br>1D7B4   | $\epsilon$<br>1D7C4                                                                   | $6$<br>1D7D4 | $2$<br>1D7E4 | $8$<br>1D7F4 |
| 5 | $\kappa$<br>1D705      | $\partial$<br>1D715  | $K$<br>1D725       | $\nabla$<br>1D735      | $\pi$<br>1D745       | $\varpi$<br>1D755    | $\Pi$<br>1D765     | $\zeta$<br>1D775       | $\varphi$<br>1D785   | $Z$<br>1D795       | $\Phi$<br>1D7A5        | $\mu$<br>1D7B5       | $\vartheta$<br>1D7C5                                                                  | $7$<br>1D7D5 | $3$<br>1D7E5 | $9$<br>1D7F5 |
| 6 | $\lambda$<br>1D706     | $\epsilon$<br>1D716  | $\Lambda$<br>1D726 | $\alpha$<br>1D736      | $\rho$<br>1D746      | $A$<br>1D756         | $P$<br>1D766       | $\eta$<br>1D776        | $\chi$<br>1D786      | $H$<br>1D796       | $X$<br>1D7A6           | $\nu$<br>1D7B6       | $\kappa$<br>1D7C6                                                                     | $8$<br>1D7D6 | $4$<br>1D7E6 | $0$<br>1D7F6 |
| 7 | $\mu$<br>1D707         | $\vartheta$<br>1D717 | $M$<br>1D727       | $\beta$<br>1D737       | $\varsigma$<br>1D747 | $B$<br>1D757         | $\Theta$<br>1D767  | $\theta$<br>1D777      | $\psi$<br>1D787      | $\Theta$<br>1D797  | $\Psi$<br>1D7A7        | $\xi$<br>1D7B7       | $\phi$<br>1D7C7                                                                       | $9$<br>1D7D7 | $5$<br>1D7E7 | $1$<br>1D7F7 |
| 8 | $\nu$<br>1D708         | $\kappa$<br>1D718    | $N$<br>1D728       | $\gamma$<br>1D738      | $\sigma$<br>1D748    | $\Gamma$<br>1D758    | $\Sigma$<br>1D768  | $\iota$<br>1D778       | $\omega$<br>1D788    | $I$<br>1D798       | $\Omega$<br>1D7A8      | $o$<br>1D7B8         | $\varrho$<br>1D7C8                                                                    | $0$<br>1D7D8 | $6$<br>1D7E8 | $2$<br>1D7F8 |
| 9 | $\xi$<br>1D709         | $\phi$<br>1D719      | $\Xi$<br>1D729     | $\delta$<br>1D739      | $\tau$<br>1D749      | $\Delta$<br>1D759    | $T$<br>1D769       | $\kappa$<br>1D779      | $\partial$<br>1D789  | $K$<br>1D799       | $\nabla$<br>1D7A9      | $\pi$<br>1D7B9       | $\varpi$<br>1D7C9                                                                     | $1$<br>1D7D9 | $7$<br>1D7E9 | $3$<br>1D7F9 |
| A | $o$<br>1D70A           | $\varrho$<br>1D71A   | $O$<br>1D72A       | $\varepsilon$<br>1D73A | $\upsilon$<br>1D74A  | $E$<br>1D75A         | $Y$<br>1D76A       | $\lambda$<br>1D77A     | $\epsilon$<br>1D78A  | $\Lambda$<br>1D79A | $\alpha$<br>1D7AA      | $\rho$<br>1D7BA      | $F$<br>1D7CA                                                                          | $2$<br>1D7DA | $8$<br>1D7EA | $4$<br>1D7FA |
| B | $\pi$<br>1D70B         | $\varpi$<br>1D71B    | $\Pi$<br>1D72B     | $\zeta$<br>1D73B       | $\varphi$<br>1D74B   | $Z$<br>1D75B         | $\Phi$<br>1D76B    | $\mu$<br>1D77B         | $\vartheta$<br>1D78B | $M$<br>1D79B       | $\beta$<br>1D7AB       | $\varsigma$<br>1D7BB | $F$<br>1D7CB                                                                          | $3$<br>1D7DB | $9$<br>1D7EB | $5$<br>1D7FB |
| C | $\rho$<br>1D70C        | $A$<br>1D71C         | $P$<br>1D72C       | $\eta$<br>1D73C        | $\chi$<br>1D74C      | $H$<br>1D75C         | $X$<br>1D76C       | $\nu$<br>1D77C         | $\kappa$<br>1D78C    | $N$<br>1D79C       | $\gamma$<br>1D7AC      | $\sigma$<br>1D7BC    |  | $4$<br>1D7DC | $0$<br>1D7EC | $6$<br>1D7FC |
| D | $\varsigma$<br>1D70D   | $B$<br>1D71D         | $\Theta$<br>1D72D  | $\theta$<br>1D73D      | $\psi$<br>1D74D      | $\Theta$<br>1D75D    | $\Psi$<br>1D76D    | $\xi$<br>1D77D         | $\phi$<br>1D78D      | $\Xi$<br>1D79D     | $\delta$<br>1D7AD      | $\tau$<br>1D7BD      |  | $5$<br>1D7DD | $1$<br>1D7ED | $7$<br>1D7FD |
| E | $\sigma$<br>1D70E      | $\Gamma$<br>1D71E    | $\Sigma$<br>1D72E  | $\iota$<br>1D73E       | $\omega$<br>1D74E    | $I$<br>1D75E         | $\Omega$<br>1D76E  | $o$<br>1D77E           | $\varrho$<br>1D78E   | $O$<br>1D79E       | $\varepsilon$<br>1D7AE | $\upsilon$<br>1D7BE  | $0$<br>1D7CE                                                                          | $6$<br>1D7DE | $2$<br>1D7EE | $8$<br>1D7FE |
| F | $\tau$<br>1D70F        | $\Delta$<br>1D71F    | $T$<br>1D72F       | $\kappa$<br>1D73F      | $\partial$<br>1D74F  | $K$<br>1D75F         | $\nabla$<br>1D76F  | $\pi$<br>1D77F         | $\varpi$<br>1D78F    | $\Pi$<br>1D79F     | $\zeta$<br>1D7AF       | $\varphi$<br>1D7BF   | $1$<br>1D7CF                                                                          | $7$<br>1D7DF | $3$<br>1D7EF | $9$<br>1D7FF |

*To be used for mathematical variables where style variations are important semantically. For general text, use standard Latin and Greek letters with markup.*

#### Bold symbols

|       |          |                                                                              |
|-------|----------|------------------------------------------------------------------------------|
| 1D400 | <b>A</b> | MATHEMATICAL BOLD CAPITAL A<br>≈ <font> 0041 <b>A</b> latin capital letter a |
| 1D401 | <b>B</b> | MATHEMATICAL BOLD CAPITAL B<br>≈ <font> 0042 <b>B</b> latin capital letter b |
| 1D402 | <b>C</b> | MATHEMATICAL BOLD CAPITAL C<br>≈ <font> 0043 <b>C</b> latin capital letter c |
| 1D403 | <b>D</b> | MATHEMATICAL BOLD CAPITAL D<br>≈ <font> 0044 <b>D</b> latin capital letter d |
| 1D404 | <b>E</b> | MATHEMATICAL BOLD CAPITAL E<br>≈ <font> 0045 <b>E</b> latin capital letter e |
| 1D405 | <b>F</b> | MATHEMATICAL BOLD CAPITAL F<br>≈ <font> 0046 <b>F</b> latin capital letter f |
| 1D406 | <b>G</b> | MATHEMATICAL BOLD CAPITAL G<br>≈ <font> 0047 <b>G</b> latin capital letter g |
| 1D407 | <b>H</b> | MATHEMATICAL BOLD CAPITAL H<br>≈ <font> 0048 <b>H</b> latin capital letter h |
| 1D408 | <b>I</b> | MATHEMATICAL BOLD CAPITAL I<br>≈ <font> 0049 <b>I</b> latin capital letter i |
| 1D409 | <b>J</b> | MATHEMATICAL BOLD CAPITAL J<br>≈ <font> 004A <b>J</b> latin capital letter j |
| 1D40A | <b>K</b> | MATHEMATICAL BOLD CAPITAL K<br>≈ <font> 004B <b>K</b> latin capital letter k |
| 1D40B | <b>L</b> | MATHEMATICAL BOLD CAPITAL L<br>≈ <font> 004C <b>L</b> latin capital letter l |
| 1D40C | <b>M</b> | MATHEMATICAL BOLD CAPITAL M<br>≈ <font> 004D <b>M</b> latin capital letter m |
| 1D40D | <b>N</b> | MATHEMATICAL BOLD CAPITAL N<br>≈ <font> 004E <b>N</b> latin capital letter n |
| 1D40E | <b>O</b> | MATHEMATICAL BOLD CAPITAL O<br>≈ <font> 004F <b>O</b> latin capital letter o |
| 1D40F | <b>P</b> | MATHEMATICAL BOLD CAPITAL P<br>≈ <font> 0050 <b>P</b> latin capital letter p |
| 1D410 | <b>Q</b> | MATHEMATICAL BOLD CAPITAL Q<br>≈ <font> 0051 <b>Q</b> latin capital letter q |
| 1D411 | <b>R</b> | MATHEMATICAL BOLD CAPITAL R<br>≈ <font> 0052 <b>R</b> latin capital letter r |
| 1D412 | <b>S</b> | MATHEMATICAL BOLD CAPITAL S<br>≈ <font> 0053 <b>S</b> latin capital letter s |
| 1D413 | <b>T</b> | MATHEMATICAL BOLD CAPITAL T<br>≈ <font> 0054 <b>T</b> latin capital letter t |
| 1D414 | <b>U</b> | MATHEMATICAL BOLD CAPITAL U<br>≈ <font> 0055 <b>U</b> latin capital letter u |
| 1D415 | <b>V</b> | MATHEMATICAL BOLD CAPITAL V<br>≈ <font> 0056 <b>V</b> latin capital letter v |
| 1D416 | <b>W</b> | MATHEMATICAL BOLD CAPITAL W<br>≈ <font> 0057 <b>W</b> latin capital letter w |
| 1D417 | <b>X</b> | MATHEMATICAL BOLD CAPITAL X<br>≈ <font> 0058 <b>X</b> latin capital letter x |
| 1D418 | <b>Y</b> | MATHEMATICAL BOLD CAPITAL Y<br>≈ <font> 0059 <b>Y</b> latin capital letter y |
| 1D419 | <b>Z</b> | MATHEMATICAL BOLD CAPITAL Z<br>≈ <font> 005A <b>Z</b> latin capital letter z |
| 1D41A | <b>a</b> | MATHEMATICAL BOLD SMALL A<br>≈ <font> 0061 <b>a</b> latin small letter a     |
| 1D41B | <b>b</b> | MATHEMATICAL BOLD SMALL B<br>≈ <font> 0062 <b>b</b> latin small letter b     |
| 1D41C | <b>c</b> | MATHEMATICAL BOLD SMALL C<br>≈ <font> 0063 <b>c</b> latin small letter c     |

|       |          |                                                                          |
|-------|----------|--------------------------------------------------------------------------|
| 1D41D | <b>d</b> | MATHEMATICAL BOLD SMALL D<br>≈ <font> 0064 <b>d</b> latin small letter d |
| 1D41E | <b>e</b> | MATHEMATICAL BOLD SMALL E<br>≈ <font> 0065 <b>e</b> latin small letter e |
| 1D41F | <b>f</b> | MATHEMATICAL BOLD SMALL F<br>≈ <font> 0066 <b>f</b> latin small letter f |
| 1D420 | <b>g</b> | MATHEMATICAL BOLD SMALL G<br>≈ <font> 0067 <b>g</b> latin small letter g |
| 1D421 | <b>h</b> | MATHEMATICAL BOLD SMALL H<br>≈ <font> 0068 <b>h</b> latin small letter h |
| 1D422 | <b>i</b> | MATHEMATICAL BOLD SMALL I<br>≈ <font> 0069 <b>i</b> latin small letter i |
| 1D423 | <b>j</b> | MATHEMATICAL BOLD SMALL J<br>≈ <font> 006A <b>j</b> latin small letter j |
| 1D424 | <b>k</b> | MATHEMATICAL BOLD SMALL K<br>≈ <font> 006B <b>k</b> latin small letter k |
| 1D425 | <b>l</b> | MATHEMATICAL BOLD SMALL L<br>≈ <font> 006C <b>l</b> latin small letter l |
| 1D426 | <b>m</b> | MATHEMATICAL BOLD SMALL M<br>≈ <font> 006D <b>m</b> latin small letter m |
| 1D427 | <b>n</b> | MATHEMATICAL BOLD SMALL N<br>≈ <font> 006E <b>n</b> latin small letter n |
| 1D428 | <b>o</b> | MATHEMATICAL BOLD SMALL O<br>≈ <font> 006F <b>o</b> latin small letter o |
| 1D429 | <b>p</b> | MATHEMATICAL BOLD SMALL P<br>≈ <font> 0070 <b>p</b> latin small letter p |
| 1D42A | <b>q</b> | MATHEMATICAL BOLD SMALL Q<br>≈ <font> 0071 <b>q</b> latin small letter q |
| 1D42B | <b>r</b> | MATHEMATICAL BOLD SMALL R<br>≈ <font> 0072 <b>r</b> latin small letter r |
| 1D42C | <b>s</b> | MATHEMATICAL BOLD SMALL S<br>≈ <font> 0073 <b>s</b> latin small letter s |
| 1D42D | <b>t</b> | MATHEMATICAL BOLD SMALL T<br>≈ <font> 0074 <b>t</b> latin small letter t |
| 1D42E | <b>u</b> | MATHEMATICAL BOLD SMALL U<br>≈ <font> 0075 <b>u</b> latin small letter u |
| 1D42F | <b>v</b> | MATHEMATICAL BOLD SMALL V<br>≈ <font> 0076 <b>v</b> latin small letter v |
| 1D430 | <b>w</b> | MATHEMATICAL BOLD SMALL W<br>≈ <font> 0077 <b>w</b> latin small letter w |
| 1D431 | <b>x</b> | MATHEMATICAL BOLD SMALL X<br>≈ <font> 0078 <b>x</b> latin small letter x |
| 1D432 | <b>y</b> | MATHEMATICAL BOLD SMALL Y<br>≈ <font> 0079 <b>y</b> latin small letter y |
| 1D433 | <b>z</b> | MATHEMATICAL BOLD SMALL Z<br>≈ <font> 007A <b>z</b> latin small letter z |

#### Italic symbols

*Italic symbols already encoded in the Letterlike Symbols block are omitted here to avoid duplicate encoding.*

|       |          |                                                                                |
|-------|----------|--------------------------------------------------------------------------------|
| 1D434 | <b>A</b> | MATHEMATICAL ITALIC CAPITAL A<br>≈ <font> 0041 <b>A</b> latin capital letter a |
| 1D435 | <b>B</b> | MATHEMATICAL ITALIC CAPITAL B<br>≈ <font> 0042 <b>B</b> latin capital letter b |
| 1D436 | <b>C</b> | MATHEMATICAL ITALIC CAPITAL C<br>≈ <font> 0043 <b>C</b> latin capital letter c |
| 1D437 | <b>D</b> | MATHEMATICAL ITALIC CAPITAL D<br>≈ <font> 0044 <b>D</b> latin capital letter d |
| 1D438 | <b>E</b> | MATHEMATICAL ITALIC CAPITAL E<br>≈ <font> 0045 <b>E</b> latin capital letter e |
| 1D439 | <b>F</b> | MATHEMATICAL ITALIC CAPITAL F<br>≈ <font> 0046 <b>F</b> latin capital letter f |

1D43A *G* MATHEMATICAL ITALIC CAPITAL G  
 ≈ <font> 0047 **G** latin capital letter g

1D43B *H* MATHEMATICAL ITALIC CAPITAL H  
 ≈ <font> 0048 **H** latin capital letter h

1D43C *I* MATHEMATICAL ITALIC CAPITAL I  
 ≈ <font> 0049 **I** latin capital letter i

1D43D *J* MATHEMATICAL ITALIC CAPITAL J  
 ≈ <font> 004A **J** latin capital letter j

1D43E *K* MATHEMATICAL ITALIC CAPITAL K  
 ≈ <font> 004B **K** latin capital letter k

1D43F *L* MATHEMATICAL ITALIC CAPITAL L  
 ≈ <font> 004C **L** latin capital letter l

1D440 *M* MATHEMATICAL ITALIC CAPITAL M  
 ≈ <font> 004D **M** latin capital letter m

1D441 *N* MATHEMATICAL ITALIC CAPITAL N  
 ≈ <font> 004E **N** latin capital letter n

1D442 *O* MATHEMATICAL ITALIC CAPITAL O  
 ≈ <font> 004F **O** latin capital letter o

1D443 *P* MATHEMATICAL ITALIC CAPITAL P  
 ≈ <font> 0050 **P** latin capital letter p

1D444 *Q* MATHEMATICAL ITALIC CAPITAL Q  
 ≈ <font> 0051 **Q** latin capital letter q

1D445 *R* MATHEMATICAL ITALIC CAPITAL R  
 ≈ <font> 0052 **R** latin capital letter r

1D446 *S* MATHEMATICAL ITALIC CAPITAL S  
 ≈ <font> 0053 **S** latin capital letter s

1D447 *T* MATHEMATICAL ITALIC CAPITAL T  
 ≈ <font> 0054 **T** latin capital letter t

1D448 *U* MATHEMATICAL ITALIC CAPITAL U  
 ≈ <font> 0055 **U** latin capital letter u

1D449 *V* MATHEMATICAL ITALIC CAPITAL V  
 ≈ <font> 0056 **V** latin capital letter v

1D44A *W* MATHEMATICAL ITALIC CAPITAL W  
 ≈ <font> 0057 **W** latin capital letter w

1D44B *X* MATHEMATICAL ITALIC CAPITAL X  
 ≈ <font> 0058 **X** latin capital letter x

1D44C *Y* MATHEMATICAL ITALIC CAPITAL Y  
 ≈ <font> 0059 **Y** latin capital letter y

1D44D *Z* MATHEMATICAL ITALIC CAPITAL Z  
 ≈ <font> 005A **Z** latin capital letter z

1D44E *a* MATHEMATICAL ITALIC SMALL A  
 ≈ <font> 0061 **a** latin small letter a

1D44F *b* MATHEMATICAL ITALIC SMALL B  
 ≈ <font> 0062 **b** latin small letter b

1D450 *c* MATHEMATICAL ITALIC SMALL C  
 ≈ <font> 0063 **c** latin small letter c

1D451 *d* MATHEMATICAL ITALIC SMALL D  
 ≈ <font> 0064 **d** latin small letter d

1D452 *e* MATHEMATICAL ITALIC SMALL E  
 ≈ <font> 0065 **e** latin small letter e

1D453 *f* MATHEMATICAL ITALIC SMALL F  
 ≈ <font> 0066 **f** latin small letter f

1D454 *g* MATHEMATICAL ITALIC SMALL G  
 ≈ <font> 0067 **g** latin small letter g

1D455  <reserved>  
 → 210E **h** planck constant

1D456 *i* MATHEMATICAL ITALIC SMALL I  
 ≈ <font> 0069 **i** latin small letter i

1D457 *j* MATHEMATICAL ITALIC SMALL J  
 ≈ <font> 006A **j** latin small letter j

1D458 *k* MATHEMATICAL ITALIC SMALL K  
 ≈ <font> 006B **k** latin small letter k

1D459 *l* MATHEMATICAL ITALIC SMALL L  
 ≈ <font> 006C **l** latin small letter l

1D45A *m* MATHEMATICAL ITALIC SMALL M  
 ≈ <font> 006D **m** latin small letter m

1D45B *n* MATHEMATICAL ITALIC SMALL N  
 ≈ <font> 006E **n** latin small letter n

1D45C *o* MATHEMATICAL ITALIC SMALL O  
 ≈ <font> 006F **o** latin small letter o

1D45D *p* MATHEMATICAL ITALIC SMALL P  
 ≈ <font> 0070 **p** latin small letter p

1D45E *q* MATHEMATICAL ITALIC SMALL Q  
 ≈ <font> 0071 **q** latin small letter q

1D45F *r* MATHEMATICAL ITALIC SMALL R  
 ≈ <font> 0072 **r** latin small letter r

1D460 *s* MATHEMATICAL ITALIC SMALL S  
 ≈ <font> 0073 **s** latin small letter s

1D461 *t* MATHEMATICAL ITALIC SMALL T  
 ≈ <font> 0074 **t** latin small letter t

1D462 *u* MATHEMATICAL ITALIC SMALL U  
 ≈ <font> 0075 **u** latin small letter u

1D463 *v* MATHEMATICAL ITALIC SMALL V  
 ≈ <font> 0076 **v** latin small letter v

1D464 *w* MATHEMATICAL ITALIC SMALL W  
 ≈ <font> 0077 **w** latin small letter w

1D465 *x* MATHEMATICAL ITALIC SMALL X  
 ≈ <font> 0078 **x** latin small letter x

1D466 *y* MATHEMATICAL ITALIC SMALL Y  
 ≈ <font> 0079 **y** latin small letter y

1D467 *z* MATHEMATICAL ITALIC SMALL Z  
 ≈ <font> 007A **z** latin small letter z

**Bold italic symbols**

1D468 ***A*** MATHEMATICAL BOLD ITALIC CAPITAL A  
 ≈ <font> 0041 **A** latin capital letter a

1D469 ***B*** MATHEMATICAL BOLD ITALIC CAPITAL B  
 ≈ <font> 0042 **B** latin capital letter b

1D46A ***C*** MATHEMATICAL BOLD ITALIC CAPITAL C  
 ≈ <font> 0043 **C** latin capital letter c

1D46B ***D*** MATHEMATICAL BOLD ITALIC CAPITAL D  
 ≈ <font> 0044 **D** latin capital letter d

1D46C ***E*** MATHEMATICAL BOLD ITALIC CAPITAL E  
 ≈ <font> 0045 **E** latin capital letter e

1D46D ***F*** MATHEMATICAL BOLD ITALIC CAPITAL F  
 ≈ <font> 0046 **F** latin capital letter f

1D46E ***G*** MATHEMATICAL BOLD ITALIC CAPITAL G  
 ≈ <font> 0047 **G** latin capital letter g

1D46F ***H*** MATHEMATICAL BOLD ITALIC CAPITAL H  
 ≈ <font> 0048 **H** latin capital letter h

1D470 ***I*** MATHEMATICAL BOLD ITALIC CAPITAL I  
 ≈ <font> 0049 **I** latin capital letter i

1D471 ***J*** MATHEMATICAL BOLD ITALIC CAPITAL J  
 ≈ <font> 004A **J** latin capital letter j

1D472 ***K*** MATHEMATICAL BOLD ITALIC CAPITAL K  
 ≈ <font> 004B **K** latin capital letter k

1D473 ***L*** MATHEMATICAL BOLD ITALIC CAPITAL L  
 ≈ <font> 004C **L** latin capital letter l

1D474 ***M*** MATHEMATICAL BOLD ITALIC CAPITAL M  
 ≈ <font> 004D **M** latin capital letter m

1D475 ***N*** MATHEMATICAL BOLD ITALIC CAPITAL N  
 ≈ <font> 004E **N** latin capital letter n

1D476 ***O*** MATHEMATICAL BOLD ITALIC CAPITAL O  
 ≈ <font> 004F **O** latin capital letter o

1D477 ***P*** MATHEMATICAL BOLD ITALIC CAPITAL P  
 ≈ <font> 0050 **P** latin capital letter p

1D478 ***Q*** MATHEMATICAL BOLD ITALIC CAPITAL Q  
 ≈ <font> 0051 **Q** latin capital letter q

1D479 ***R*** MATHEMATICAL BOLD ITALIC CAPITAL R  
 ≈ <font> 0052 **R** latin capital letter r

1D47A ***S*** MATHEMATICAL BOLD ITALIC CAPITAL S  
 ≈ <font> 0053 **S** latin capital letter s

1D47B ***T*** MATHEMATICAL BOLD ITALIC CAPITAL T  
 ≈ <font> 0054 **T** latin capital letter t

1D47C ***U*** MATHEMATICAL BOLD ITALIC CAPITAL U  
 ≈ <font> 0055 **U** latin capital letter u

1D47D ***V*** MATHEMATICAL BOLD ITALIC CAPITAL V  
 ≈ <font> 0056 **V** latin capital letter v

1D47E ***W*** MATHEMATICAL BOLD ITALIC CAPITAL W  
 ≈ <font> 0057 **W** latin capital letter w

1D47F ***X*** MATHEMATICAL BOLD ITALIC CAPITAL X  
 ≈ <font> 0058 **X** latin capital letter x

1D480 ***Y*** MATHEMATICAL BOLD ITALIC CAPITAL Y  
 ≈ <font> 0059 **Y** latin capital letter y

1D481 ***Z*** MATHEMATICAL BOLD ITALIC CAPITAL Z  
 ≈ <font> 005A **Z** latin capital letter z

1D482 ***a*** MATHEMATICAL BOLD ITALIC SMALL A  
 ≈ <font> 0061 **a** latin small letter a

1D483 ***b*** MATHEMATICAL BOLD ITALIC SMALL B  
 ≈ <font> 0062 **b** latin small letter b

1D484 ***c*** MATHEMATICAL BOLD ITALIC SMALL C  
 ≈ <font> 0063 **c** latin small letter c

1D485 ***d*** MATHEMATICAL BOLD ITALIC SMALL D  
 ≈ <font> 0064 **d** latin small letter d

1D486 ***e*** MATHEMATICAL BOLD ITALIC SMALL E  
 ≈ <font> 0065 **e** latin small letter e

1D487 ***f*** MATHEMATICAL BOLD ITALIC SMALL F  
 ≈ <font> 0066 **f** latin small letter f

1D488 ***g*** MATHEMATICAL BOLD ITALIC SMALL G  
 ≈ <font> 0067 **g** latin small letter g

1D489 ***h*** MATHEMATICAL BOLD ITALIC SMALL H  
 ≈ <font> 0068 **h** latin small letter h

1D48A ***i*** MATHEMATICAL BOLD ITALIC SMALL I  
 ≈ <font> 0069 **i** latin small letter i

1D48B ***j*** MATHEMATICAL BOLD ITALIC SMALL J  
 ≈ <font> 006A **j** latin small letter j

1D48C ***k*** MATHEMATICAL BOLD ITALIC SMALL K  
 ≈ <font> 006B **k** latin small letter k

1D48D ***l*** MATHEMATICAL BOLD ITALIC SMALL L  
 ≈ <font> 006C **l** latin small letter l

1D48E ***m*** MATHEMATICAL BOLD ITALIC SMALL M  
 ≈ <font> 006D **m** latin small letter m

1D48F ***n*** MATHEMATICAL BOLD ITALIC SMALL N  
 ≈ <font> 006E **n** latin small letter n

1D490 ***o*** MATHEMATICAL BOLD ITALIC SMALL O  
 ≈ <font> 006F **o** latin small letter o

1D491 ***p*** MATHEMATICAL BOLD ITALIC SMALL P  
 ≈ <font> 0070 **p** latin small letter p

1D492 ***q*** MATHEMATICAL BOLD ITALIC SMALL Q  
 ≈ <font> 0071 **q** latin small letter q

1D493 ***r*** MATHEMATICAL BOLD ITALIC SMALL R  
 ≈ <font> 0072 **r** latin small letter r

1D494 ***s*** MATHEMATICAL BOLD ITALIC SMALL S  
 ≈ <font> 0073 **s** latin small letter s

1D495 ***t*** MATHEMATICAL BOLD ITALIC SMALL T  
 ≈ <font> 0074 **t** latin small letter t

1D496 ***u*** MATHEMATICAL BOLD ITALIC SMALL U  
 ≈ <font> 0075 **u** latin small letter u

1D497 ***v*** MATHEMATICAL BOLD ITALIC SMALL V  
 ≈ <font> 0076 **v** latin small letter v

1D498 ***w*** MATHEMATICAL BOLD ITALIC SMALL W  
 ≈ <font> 0077 **w** latin small letter w

1D499 ***x*** MATHEMATICAL BOLD ITALIC SMALL X  
 ≈ <font> 0078 **x** latin small letter x

1D49A ***y*** MATHEMATICAL BOLD ITALIC SMALL Y  
 ≈ <font> 0079 **y** latin small letter y

1D49B ***z*** MATHEMATICAL BOLD ITALIC SMALL Z  
 ≈ <font> 007A **z** latin small letter z

### Script symbols

*Script symbols already encoded in the Letterlike Symbols block are omitted here to avoid duplicate encoding. Fonts that use a less elaborate style are also acceptable for many uses, as long as they can be distinguished from serified and italic styles.*

1D49C ***ℒ*** MATHEMATICAL SCRIPT CAPITAL A  
 ~ 1D49C FE00 **ℒ** chancery style  
 ~ 1D49C FE01 **ℒ** roundhand style  
 ≈ <font> 0041 **A** latin capital letter a

1D49D ***ℓ*** **<reserved>**  
 → 212C **ℓ** script capital b

1D49E ***ℓ*** MATHEMATICAL SCRIPT CAPITAL C  
 ~ 1D49E FE00 **ℓ** chancery style  
 ~ 1D49E FE01 **ℓ** roundhand style  
 ≈ <font> 0043 **C** latin capital letter c

1D49F ***ℓ*** MATHEMATICAL SCRIPT CAPITAL D  
 ~ 1D49F FE00 **ℓ** chancery style  
 ~ 1D49F FE01 **ℓ** roundhand style  
 ≈ <font> 0044 **D** latin capital letter d

1D4A0 ***ℓ*** **<reserved>**  
 → 2130 **ℓ** script capital e

1D4A1 ***ℓ*** **<reserved>**  
 → 2131 **ℓ** script capital f

1D4A2 ***ℓ*** MATHEMATICAL SCRIPT CAPITAL G  
 ~ 1D4A2 FE00 **ℓ** chancery style  
 ~ 1D4A2 FE01 **ℓ** roundhand style  
 ≈ <font> 0047 **G** latin capital letter g

1D4A3 ***ℓ*** **<reserved>**  
 → 210B **ℓ** script capital h

1D4A4 ***ℓ*** **<reserved>**  
 → 2110 **ℓ** script capital i

1D4A5 ***ℓ*** MATHEMATICAL SCRIPT CAPITAL J  
 ~ 1D4A5 FE00 **ℓ** chancery style  
 ~ 1D4A5 FE01 **ℓ** roundhand style  
 ≈ <font> 004A **J** latin capital letter j

1D4A6 ***ℓ*** MATHEMATICAL SCRIPT CAPITAL K  
 ~ 1D4A6 FE00 **ℓ** chancery style  
 ~ 1D4A6 FE01 **ℓ** roundhand style  
 ≈ <font> 004B **K** latin capital letter k

1D4A7 ***ℓ*** **<reserved>**  
 → 2112 **ℓ** script capital l

1D4A8 ***ℓ*** **<reserved>**  
 → 2133 **ℓ** script capital m

1D4A9 ***ℓ*** MATHEMATICAL SCRIPT CAPITAL N  
 ~ 1D4A9 FE00 **ℓ** chancery style  
 ~ 1D4A9 FE01 **ℓ** roundhand style  
 ≈ <font> 004E **N** latin capital letter n



1D4AA  MATHEMATICAL SCRIPT CAPITAL O  
 ~ 1D4AA FE00  chancery style  
 ~ 1D4AA FE01  roundhand style  
 ≈ <font> 004F  latin capital letter o

1D4AB  MATHEMATICAL SCRIPT CAPITAL P  
 = power set  
 ~ 1D4AB FE00  chancery style  
 ~ 1D4AB FE01  roundhand style  
 ≈ <font> 0050  latin capital letter p

1D4AC  MATHEMATICAL SCRIPT CAPITAL Q  
 ~ 1D4AC FE00  chancery style  
 ~ 1D4AC FE01  roundhand style  
 ≈ <font> 0051  latin capital letter q

1D4AD  <reserved>  
 → 211B  script capital r

1D4AE  MATHEMATICAL SCRIPT CAPITAL S  
 ~ 1D4AE FE00  chancery style  
 ~ 1D4AE FE01  roundhand style  
 ≈ <font> 0053  latin capital letter s

1D4AF  MATHEMATICAL SCRIPT CAPITAL T  
 ~ 1D4AF FE00  chancery style  
 ~ 1D4AF FE01  roundhand style  
 ≈ <font> 0054  latin capital letter t

1D4B0  MATHEMATICAL SCRIPT CAPITAL U  
 ~ 1D4B0 FE00  chancery style  
 ~ 1D4B0 FE01  roundhand style  
 ≈ <font> 0055  latin capital letter u

1D4B1  MATHEMATICAL SCRIPT CAPITAL V  
 ~ 1D4B1 FE00  chancery style  
 ~ 1D4B1 FE01  roundhand style  
 ≈ <font> 0056  latin capital letter v

1D4B2  MATHEMATICAL SCRIPT CAPITAL W  
 ~ 1D4B2 FE00  chancery style  
 ~ 1D4B2 FE01  roundhand style  
 ≈ <font> 0057  latin capital letter w

1D4B3  MATHEMATICAL SCRIPT CAPITAL X  
 ~ 1D4B3 FE00  chancery style  
 ~ 1D4B3 FE01  roundhand style  
 ≈ <font> 0058  latin capital letter x

1D4B4  MATHEMATICAL SCRIPT CAPITAL Y  
 ~ 1D4B4 FE00  chancery style  
 ~ 1D4B4 FE01  roundhand style  
 ≈ <font> 0059  latin capital letter y

1D4B5  MATHEMATICAL SCRIPT CAPITAL Z  
 ~ 1D4B5 FE00  chancery style  
 ~ 1D4B5 FE01  roundhand style  
 ≈ <font> 005A  latin capital letter z

1D4B6  MATHEMATICAL SCRIPT SMALL A  
 ≈ <font> 0061  latin small letter a

1D4B7  MATHEMATICAL SCRIPT SMALL B  
 ≈ <font> 0062  latin small letter b

1D4B8  MATHEMATICAL SCRIPT SMALL C  
 ≈ <font> 0063  latin small letter c

1D4B9  MATHEMATICAL SCRIPT SMALL D  
 ≈ <font> 0064  latin small letter d

1D4BA  <reserved>  
 → 212F  script small e

1D4BB  MATHEMATICAL SCRIPT SMALL F  
 ≈ <font> 0066  latin small letter f

1D4BC  <reserved>  
 → 210A  script small g

1D4BD  MATHEMATICAL SCRIPT SMALL H  
 ≈ <font> 0068  latin small letter h

1D4BE  MATHEMATICAL SCRIPT SMALL I  
 ≈ <font> 0069  latin small letter i

1D4BF  MATHEMATICAL SCRIPT SMALL J  
 ≈ <font> 006A  latin small letter j

1D4C0  MATHEMATICAL SCRIPT SMALL K  
 ≈ <font> 006B  latin small letter k

1D4C1  MATHEMATICAL SCRIPT SMALL L  
 → 2113  script small l  
 ≈ <font> 006C  latin small letter l

1D4C2  MATHEMATICAL SCRIPT SMALL M  
 ≈ <font> 006D  latin small letter m

1D4C3  MATHEMATICAL SCRIPT SMALL N  
 ≈ <font> 006E  latin small letter n

1D4C4  <reserved>  
 → 2134  script small o

1D4C5  MATHEMATICAL SCRIPT SMALL P  
 ≈ <font> 0070  latin small letter p

1D4C6  MATHEMATICAL SCRIPT SMALL Q  
 ≈ <font> 0071  latin small letter q

1D4C7  MATHEMATICAL SCRIPT SMALL R  
 ≈ <font> 0072  latin small letter r

1D4C8  MATHEMATICAL SCRIPT SMALL S  
 ≈ <font> 0073  latin small letter s

1D4C9  MATHEMATICAL SCRIPT SMALL T  
 ≈ <font> 0074  latin small letter t

1D4CA  MATHEMATICAL SCRIPT SMALL U  
 ≈ <font> 0075  latin small letter u

1D4CB  MATHEMATICAL SCRIPT SMALL V  
 ≈ <font> 0076  latin small letter v

1D4CC  MATHEMATICAL SCRIPT SMALL W  
 ≈ <font> 0077  latin small letter w

1D4CD  MATHEMATICAL SCRIPT SMALL X  
 ≈ <font> 0078  latin small letter x

1D4CE  MATHEMATICAL SCRIPT SMALL Y  
 ≈ <font> 0079  latin small letter y

1D4CF  MATHEMATICAL SCRIPT SMALL Z  
 ~ 1D4CF FE02  current style  
 ≈ <font> 007A  latin small letter z

#### Bold script symbols

1D4D0  MATHEMATICAL BOLD SCRIPT CAPITAL A  
 ≈ <font> 0041  latin capital letter a

1D4D1  MATHEMATICAL BOLD SCRIPT CAPITAL B  
 ≈ <font> 0042  latin capital letter b

1D4D2  MATHEMATICAL BOLD SCRIPT CAPITAL C  
 ≈ <font> 0043  latin capital letter c

1D4D3  MATHEMATICAL BOLD SCRIPT CAPITAL D  
 ≈ <font> 0044  latin capital letter d

1D4D4  MATHEMATICAL BOLD SCRIPT CAPITAL E  
 ≈ <font> 0045  latin capital letter e

1D4D5  MATHEMATICAL BOLD SCRIPT CAPITAL F  
 ≈ <font> 0046  latin capital letter f

1D4D6  MATHEMATICAL BOLD SCRIPT CAPITAL G  
 ≈ <font> 0047  latin capital letter g

1D4D7  MATHEMATICAL BOLD SCRIPT CAPITAL H  
 ≈ <font> 0048  latin capital letter h

1D4D8  MATHEMATICAL BOLD SCRIPT CAPITAL I  
 ≈ <font> 0049  latin capital letter i

1D4D9  MATHEMATICAL BOLD SCRIPT CAPITAL J  
 ≈ <font> 004A  latin capital letter j

1D4DA  MATHEMATICAL BOLD SCRIPT CAPITAL K  
 ≈ <font> 004B  latin capital letter k

1D4DB **L** MATHEMATICAL BOLD SCRIPT CAPITAL L  
 ≈ <font> 004C **L** latin capital letter l

1D4DC **M** MATHEMATICAL BOLD SCRIPT CAPITAL M  
 ≈ <font> 004D **M** latin capital letter m

1D4DD **N** MATHEMATICAL BOLD SCRIPT CAPITAL N  
 ≈ <font> 004E **N** latin capital letter n

1D4DE **O** MATHEMATICAL BOLD SCRIPT CAPITAL O  
 ≈ <font> 004F **O** latin capital letter o

1D4DF **P** MATHEMATICAL BOLD SCRIPT CAPITAL P  
 ≈ <font> 0050 **P** latin capital letter p

1D4E0 **Q** MATHEMATICAL BOLD SCRIPT CAPITAL Q  
 ≈ <font> 0051 **Q** latin capital letter q

1D4E1 **R** MATHEMATICAL BOLD SCRIPT CAPITAL R  
 ≈ <font> 0052 **R** latin capital letter r

1D4E2 **S** MATHEMATICAL BOLD SCRIPT CAPITAL S  
 ≈ <font> 0053 **S** latin capital letter s

1D4E3 **T** MATHEMATICAL BOLD SCRIPT CAPITAL T  
 ≈ <font> 0054 **T** latin capital letter t

1D4E4 **U** MATHEMATICAL BOLD SCRIPT CAPITAL U  
 ≈ <font> 0055 **U** latin capital letter u

1D4E5 **V** MATHEMATICAL BOLD SCRIPT CAPITAL V  
 ≈ <font> 0056 **V** latin capital letter v

1D4E6 **W** MATHEMATICAL BOLD SCRIPT CAPITAL W  
 ≈ <font> 0057 **W** latin capital letter w

1D4E7 **X** MATHEMATICAL BOLD SCRIPT CAPITAL X  
 ≈ <font> 0058 **X** latin capital letter x

1D4E8 **Y** MATHEMATICAL BOLD SCRIPT CAPITAL Y  
 ≈ <font> 0059 **Y** latin capital letter y

1D4E9 **Z** MATHEMATICAL BOLD SCRIPT CAPITAL Z  
 ≈ <font> 005A **Z** latin capital letter z

1D4EA **a** MATHEMATICAL BOLD SCRIPT SMALL A  
 ≈ <font> 0061 **a** latin small letter a

1D4EB **b** MATHEMATICAL BOLD SCRIPT SMALL B  
 ≈ <font> 0062 **b** latin small letter b

1D4EC **c** MATHEMATICAL BOLD SCRIPT SMALL C  
 ≈ <font> 0063 **c** latin small letter c

1D4ED **d** MATHEMATICAL BOLD SCRIPT SMALL D  
 ≈ <font> 0064 **d** latin small letter d

1D4EE **e** MATHEMATICAL BOLD SCRIPT SMALL E  
 ≈ <font> 0065 **e** latin small letter e

1D4EF **f** MATHEMATICAL BOLD SCRIPT SMALL F  
 ≈ <font> 0066 **f** latin small letter f

1D4F0 **g** MATHEMATICAL BOLD SCRIPT SMALL G  
 ≈ <font> 0067 **g** latin small letter g

1D4F1 **h** MATHEMATICAL BOLD SCRIPT SMALL H  
 ≈ <font> 0068 **h** latin small letter h

1D4F2 **i** MATHEMATICAL BOLD SCRIPT SMALL I  
 ≈ <font> 0069 **i** latin small letter i

1D4F3 **j** MATHEMATICAL BOLD SCRIPT SMALL J  
 ≈ <font> 006A **j** latin small letter j

1D4F4 **k** MATHEMATICAL BOLD SCRIPT SMALL K  
 ≈ <font> 006B **k** latin small letter k

1D4F5 **l** MATHEMATICAL BOLD SCRIPT SMALL L  
 ≈ <font> 006C **l** latin small letter l

1D4F6 **m** MATHEMATICAL BOLD SCRIPT SMALL M  
 ≈ <font> 006D **m** latin small letter m

1D4F7 **n** MATHEMATICAL BOLD SCRIPT SMALL N  
 ≈ <font> 006E **n** latin small letter n

1D4F8 **o** MATHEMATICAL BOLD SCRIPT SMALL O  
 ≈ <font> 006F **o** latin small letter o

1D4F9 **p** MATHEMATICAL BOLD SCRIPT SMALL P  
 ≈ <font> 0070 **p** latin small letter p

1D4FA **q** MATHEMATICAL BOLD SCRIPT SMALL Q  
 ≈ <font> 0071 **q** latin small letter q

1D4FB **r** MATHEMATICAL BOLD SCRIPT SMALL R  
 ≈ <font> 0072 **r** latin small letter r

1D4FC **s** MATHEMATICAL BOLD SCRIPT SMALL S  
 ≈ <font> 0073 **s** latin small letter s

1D4FD **t** MATHEMATICAL BOLD SCRIPT SMALL T  
 ≈ <font> 0074 **t** latin small letter t

1D4FE **u** MATHEMATICAL BOLD SCRIPT SMALL U  
 ≈ <font> 0075 **u** latin small letter u

1D4FF **v** MATHEMATICAL BOLD SCRIPT SMALL V  
 ≈ <font> 0076 **v** latin small letter v

1D500 **w** MATHEMATICAL BOLD SCRIPT SMALL W  
 ≈ <font> 0077 **w** latin small letter w

1D501 **x** MATHEMATICAL BOLD SCRIPT SMALL X  
 ≈ <font> 0078 **x** latin small letter x

1D502 **y** MATHEMATICAL BOLD SCRIPT SMALL Y  
 ≈ <font> 0079 **y** latin small letter y

1D503 **z** MATHEMATICAL BOLD SCRIPT SMALL Z  
 ≈ <font> 007A **z** latin small letter z

### Fraktur symbols

*This style is sometimes known as black-letter. Black-letter symbols already encoded in the Letterlike Symbols block are omitted here to avoid duplicate encoding.*

1D504 **A** MATHEMATICAL FRAKTUR CAPITAL A  
 ≈ <font> 0041 **A** latin capital letter a

1D505 **B** MATHEMATICAL FRAKTUR CAPITAL B  
 ≈ <font> 0042 **B** latin capital letter b

1D506 **C** **<reserved>**  
 → 212D **C** black-letter capital c

1D507 **D** MATHEMATICAL FRAKTUR CAPITAL D  
 ≈ <font> 0044 **D** latin capital letter d

1D508 **E** MATHEMATICAL FRAKTUR CAPITAL E  
 ≈ <font> 0045 **E** latin capital letter e

1D509 **F** MATHEMATICAL FRAKTUR CAPITAL F  
 ≈ <font> 0046 **F** latin capital letter f

1D50A **G** MATHEMATICAL FRAKTUR CAPITAL G  
 ≈ <font> 0047 **G** latin capital letter g

1D50B **H** **<reserved>**  
 → 210C **H** black-letter capital h

1D50C **I** **<reserved>**  
 → 2111 **I** black-letter capital i

1D50D **J** MATHEMATICAL FRAKTUR CAPITAL J  
 ≈ <font> 004A **J** latin capital letter j

1D50E **K** MATHEMATICAL FRAKTUR CAPITAL K  
 ≈ <font> 004B **K** latin capital letter k

1D50F **L** MATHEMATICAL FRAKTUR CAPITAL L  
 ≈ <font> 004C **L** latin capital letter l

1D510 **M** MATHEMATICAL FRAKTUR CAPITAL M  
 = New Testament majority text  
 ≈ <font> 004D **M** latin capital letter m

1D511 **N** MATHEMATICAL FRAKTUR CAPITAL N  
 ≈ <font> 004E **N** latin capital letter n

1D512 **O** MATHEMATICAL FRAKTUR CAPITAL O  
 ≈ <font> 004F **O** latin capital letter o

1D513 **P** MATHEMATICAL FRAKTUR CAPITAL P  
 ≈ <font> 0050 **P** latin capital letter p

1D514 **Q** MATHEMATICAL FRAKTUR CAPITAL Q  
 ≈ <font> 0051 **Q** latin capital letter q

1D515 **R** **<reserved>**  
 → 211C **R** black-letter capital r

|       |   |                                                                                                                      |
|-------|---|----------------------------------------------------------------------------------------------------------------------|
| 1D516 | Ⓔ | MATHEMATICAL FRAKTUR CAPITAL S<br>≈ Septuagint, Greek Old Testament<br>≈ <font> 0053 <b>S</b> latin capital letter s |
| 1D517 | Ⓕ | MATHEMATICAL FRAKTUR CAPITAL T<br>≈ <font> 0054 <b>T</b> latin capital letter t                                      |
| 1D518 | Ⓖ | MATHEMATICAL FRAKTUR CAPITAL U<br>≈ <font> 0055 <b>U</b> latin capital letter u                                      |
| 1D519 | Ⓖ | MATHEMATICAL FRAKTUR CAPITAL V<br>≈ <font> 0056 <b>V</b> latin capital letter v                                      |
| 1D51A | Ⓖ | MATHEMATICAL FRAKTUR CAPITAL W<br>≈ <font> 0057 <b>W</b> latin capital letter w                                      |
| 1D51B | Ⓖ | MATHEMATICAL FRAKTUR CAPITAL X<br>≈ <font> 0058 <b>X</b> latin capital letter x                                      |
| 1D51C | Ⓖ | MATHEMATICAL FRAKTUR CAPITAL Y<br>≈ <font> 0059 <b>Y</b> latin capital letter y                                      |
| 1D51D | Ⓖ | <reserved><br>→ 2128 <b>z</b> black-letter capital z                                                                 |
| 1D51E | Ⓔ | MATHEMATICAL FRAKTUR SMALL A<br>≈ <font> 0061 <b>a</b> latin small letter a                                          |
| 1D51F | Ⓔ | MATHEMATICAL FRAKTUR SMALL B<br>≈ <font> 0062 <b>b</b> latin small letter b                                          |
| 1D520 | Ⓔ | MATHEMATICAL FRAKTUR SMALL C<br>≈ <font> 0063 <b>c</b> latin small letter c                                          |
| 1D521 | Ⓔ | MATHEMATICAL FRAKTUR SMALL D<br>≈ <font> 0064 <b>d</b> latin small letter d                                          |
| 1D522 | Ⓔ | MATHEMATICAL FRAKTUR SMALL E<br>≈ <font> 0065 <b>e</b> latin small letter e                                          |
| 1D523 | Ⓔ | MATHEMATICAL FRAKTUR SMALL F<br>≈ <font> 0066 <b>f</b> latin small letter f                                          |
| 1D524 | Ⓔ | MATHEMATICAL FRAKTUR SMALL G<br>≈ <font> 0067 <b>g</b> latin small letter g                                          |
| 1D525 | Ⓔ | MATHEMATICAL FRAKTUR SMALL H<br>≈ <font> 0068 <b>h</b> latin small letter h                                          |
| 1D526 | Ⓔ | MATHEMATICAL FRAKTUR SMALL I<br>≈ <font> 0069 <b>i</b> latin small letter i                                          |
| 1D527 | Ⓔ | MATHEMATICAL FRAKTUR SMALL J<br>≈ <font> 006A <b>j</b> latin small letter j                                          |
| 1D528 | Ⓔ | MATHEMATICAL FRAKTUR SMALL K<br>≈ <font> 006B <b>k</b> latin small letter k                                          |
| 1D529 | Ⓔ | MATHEMATICAL FRAKTUR SMALL L<br>≈ <font> 006C <b>l</b> latin small letter l                                          |
| 1D52A | Ⓔ | MATHEMATICAL FRAKTUR SMALL M<br>≈ <font> 006D <b>m</b> latin small letter m                                          |
| 1D52B | Ⓔ | MATHEMATICAL FRAKTUR SMALL N<br>≈ <font> 006E <b>n</b> latin small letter n                                          |
| 1D52C | Ⓔ | MATHEMATICAL FRAKTUR SMALL O<br>≈ <font> 006F <b>o</b> latin small letter o                                          |
| 1D52D | Ⓔ | MATHEMATICAL FRAKTUR SMALL P<br>≈ <font> 0070 <b>p</b> latin small letter p                                          |
| 1D52E | Ⓔ | MATHEMATICAL FRAKTUR SMALL Q<br>≈ <font> 0071 <b>q</b> latin small letter q                                          |
| 1D52F | Ⓔ | MATHEMATICAL FRAKTUR SMALL R<br>≈ <font> 0072 <b>r</b> latin small letter r                                          |
| 1D530 | Ⓔ | MATHEMATICAL FRAKTUR SMALL S<br>≈ <font> 0073 <b>s</b> latin small letter s                                          |
| 1D531 | Ⓔ | MATHEMATICAL FRAKTUR SMALL T<br>≈ <font> 0074 <b>t</b> latin small letter t                                          |
| 1D532 | Ⓔ | MATHEMATICAL FRAKTUR SMALL U<br>≈ <font> 0075 <b>u</b> latin small letter u                                          |
| 1D533 | Ⓔ | MATHEMATICAL FRAKTUR SMALL V<br>≈ <font> 0076 <b>v</b> latin small letter v                                          |

|       |   |                                                                             |
|-------|---|-----------------------------------------------------------------------------|
| 1D534 | Ⓔ | MATHEMATICAL FRAKTUR SMALL W<br>≈ <font> 0077 <b>w</b> latin small letter w |
| 1D535 | Ⓔ | MATHEMATICAL FRAKTUR SMALL X<br>≈ <font> 0078 <b>x</b> latin small letter x |
| 1D536 | Ⓔ | MATHEMATICAL FRAKTUR SMALL Y<br>≈ <font> 0079 <b>y</b> latin small letter y |
| 1D537 | Ⓔ | MATHEMATICAL FRAKTUR SMALL Z<br>≈ <font> 007A <b>z</b> latin small letter z |

#### Double-struck symbols

*This style is sometimes known as open-face or blackboard-bold. Double-struck symbols already encoded in the Letterlike Symbols block are omitted here to avoid duplicate encoding. Considerable variation in font style is acceptable, as long as the glyphs retain the visual element of doubled strokes.*

|       |   |                                                                                                                                                   |
|-------|---|---------------------------------------------------------------------------------------------------------------------------------------------------|
| 1D538 | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL A<br>• a glyph variant with doubled stroke on the left exists<br>≈ <font> 0041 <b>A</b> latin capital letter a |
| 1D539 | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL B<br>≈ <font> 0042 <b>B</b> latin capital letter b                                                             |
| 1D53A | Ⓔ | <reserved><br>→ 2102 <b>C</b> double-struck capital c                                                                                             |
| 1D53B | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL D<br>≈ <font> 0044 <b>D</b> latin capital letter d                                                             |
| 1D53C | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL E<br>≈ <font> 0045 <b>E</b> latin capital letter e                                                             |
| 1D53D | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL F<br>≈ <font> 0046 <b>F</b> latin capital letter f                                                             |
| 1D53E | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL G<br>≈ <font> 0047 <b>G</b> latin capital letter g                                                             |
| 1D53F | Ⓔ | <reserved><br>→ 210D <b>H</b> double-struck capital h                                                                                             |
| 1D540 | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL I<br>≈ <font> 0049 <b>I</b> latin capital letter i                                                             |
| 1D541 | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL J<br>≈ <font> 004A <b>J</b> latin capital letter j                                                             |
| 1D542 | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL K<br>≈ <font> 004B <b>K</b> latin capital letter k                                                             |
| 1D543 | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL L<br>≈ <font> 004C <b>L</b> latin capital letter l                                                             |
| 1D544 | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL M<br>≈ <font> 004D <b>M</b> latin capital letter m                                                             |
| 1D545 | Ⓔ | <reserved><br>→ 2115 <b>N</b> double-struck capital n                                                                                             |
| 1D546 | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL O<br>≈ <font> 004F <b>O</b> latin capital letter o                                                             |
| 1D547 | Ⓔ | <reserved><br>→ 2119 <b>P</b> double-struck capital p                                                                                             |
| 1D548 | Ⓔ | <reserved><br>→ 211A <b>Q</b> double-struck capital q                                                                                             |
| 1D549 | Ⓔ | <reserved><br>→ 211D <b>R</b> double-struck capital r                                                                                             |
| 1D54A | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL S<br>≈ <font> 0053 <b>S</b> latin capital letter s                                                             |
| 1D54B | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL T<br>≈ <font> 0054 <b>T</b> latin capital letter t                                                             |
| 1D54C | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL U<br>≈ <font> 0055 <b>U</b> latin capital letter u                                                             |
| 1D54D | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL V<br>≈ <font> 0056 <b>V</b> latin capital letter v                                                             |
| 1D54E | Ⓔ | MATHEMATICAL DOUBLE-STRUCK CAPITAL W<br>≈ <font> 0057 <b>W</b> latin capital letter w                                                             |

|       |   |                                                                                       |
|-------|---|---------------------------------------------------------------------------------------|
| 1D54F | ⌘ | MATHEMATICAL DOUBLE-STRUCK CAPITAL X<br>≈ <font> 0058 <b>X</b> latin capital letter x |
| 1D550 | ⌚ | MATHEMATICAL DOUBLE-STRUCK CAPITAL Y<br>≈ <font> 0059 <b>Y</b> latin capital letter y |
| 1D551 | ⌚ | <reserved><br>→ 2124 <b>Z</b> double-struck capital z                                 |
| 1D552 | ⓐ | MATHEMATICAL DOUBLE-STRUCK SMALL A<br>≈ <font> 0061 <b>a</b> latin small letter a     |
| 1D553 | ⓑ | MATHEMATICAL DOUBLE-STRUCK SMALL B<br>≈ <font> 0062 <b>b</b> latin small letter b     |
| 1D554 | ⓒ | MATHEMATICAL DOUBLE-STRUCK SMALL C<br>≈ <font> 0063 <b>c</b> latin small letter c     |
| 1D555 | ⓓ | MATHEMATICAL DOUBLE-STRUCK SMALL D<br>≈ <font> 0064 <b>d</b> latin small letter d     |
| 1D556 | ⓔ | MATHEMATICAL DOUBLE-STRUCK SMALL E<br>≈ <font> 0065 <b>e</b> latin small letter e     |
| 1D557 | ⓕ | MATHEMATICAL DOUBLE-STRUCK SMALL F<br>≈ <font> 0066 <b>f</b> latin small letter f     |
| 1D558 | ⓖ | MATHEMATICAL DOUBLE-STRUCK SMALL G<br>≈ <font> 0067 <b>g</b> latin small letter g     |
| 1D559 | ⓗ | MATHEMATICAL DOUBLE-STRUCK SMALL H<br>≈ <font> 0068 <b>h</b> latin small letter h     |
| 1D55A | ⓞ | MATHEMATICAL DOUBLE-STRUCK SMALL I<br>≈ <font> 0069 <b>i</b> latin small letter i     |
| 1D55B | ⓙ | MATHEMATICAL DOUBLE-STRUCK SMALL J<br>≈ <font> 006A <b>j</b> latin small letter j     |
| 1D55C | ⓚ | MATHEMATICAL DOUBLE-STRUCK SMALL K<br>≈ <font> 006B <b>k</b> latin small letter k     |
| 1D55D | ⓛ | MATHEMATICAL DOUBLE-STRUCK SMALL L<br>≈ <font> 006C <b>l</b> latin small letter l     |
| 1D55E | ⓜ | MATHEMATICAL DOUBLE-STRUCK SMALL M<br>≈ <font> 006D <b>m</b> latin small letter m     |
| 1D55F | ⓝ | MATHEMATICAL DOUBLE-STRUCK SMALL N<br>≈ <font> 006E <b>n</b> latin small letter n     |
| 1D560 | ⓞ | MATHEMATICAL DOUBLE-STRUCK SMALL O<br>≈ <font> 006F <b>o</b> latin small letter o     |
| 1D561 | ⓟ | MATHEMATICAL DOUBLE-STRUCK SMALL P<br>≈ <font> 0070 <b>p</b> latin small letter p     |
| 1D562 | ⓠ | MATHEMATICAL DOUBLE-STRUCK SMALL Q<br>≈ <font> 0071 <b>q</b> latin small letter q     |
| 1D563 | ⓡ | MATHEMATICAL DOUBLE-STRUCK SMALL R<br>≈ <font> 0072 <b>r</b> latin small letter r     |
| 1D564 | ⓢ | MATHEMATICAL DOUBLE-STRUCK SMALL S<br>≈ <font> 0073 <b>s</b> latin small letter s     |
| 1D565 | ⓣ | MATHEMATICAL DOUBLE-STRUCK SMALL T<br>≈ <font> 0074 <b>t</b> latin small letter t     |
| 1D566 | ⓤ | MATHEMATICAL DOUBLE-STRUCK SMALL U<br>≈ <font> 0075 <b>u</b> latin small letter u     |
| 1D567 | ⓥ | MATHEMATICAL DOUBLE-STRUCK SMALL V<br>≈ <font> 0076 <b>v</b> latin small letter v     |
| 1D568 | ⓦ | MATHEMATICAL DOUBLE-STRUCK SMALL W<br>≈ <font> 0077 <b>w</b> latin small letter w     |
| 1D569 | ⓧ | MATHEMATICAL DOUBLE-STRUCK SMALL X<br>≈ <font> 0078 <b>x</b> latin small letter x     |
| 1D56A | ⓨ | MATHEMATICAL DOUBLE-STRUCK SMALL Y<br>≈ <font> 0079 <b>y</b> latin small letter y     |
| 1D56B | ⓩ | MATHEMATICAL DOUBLE-STRUCK SMALL Z<br>≈ <font> 007A <b>z</b> latin small letter z     |

**Bold Fraktur symbols**

|       |   |                                                                                      |
|-------|---|--------------------------------------------------------------------------------------|
| 1D56C | 𝔸 | MATHEMATICAL BOLD FRAKTUR CAPITAL A<br>≈ <font> 0041 <b>A</b> latin capital letter a |
|-------|---|--------------------------------------------------------------------------------------|

|       |   |                                                                                      |
|-------|---|--------------------------------------------------------------------------------------|
| 1D56D | 𝔹 | MATHEMATICAL BOLD FRAKTUR CAPITAL B<br>≈ <font> 0042 <b>B</b> latin capital letter b |
| 1D56E | 𝔼 | MATHEMATICAL BOLD FRAKTUR CAPITAL C<br>≈ <font> 0043 <b>C</b> latin capital letter c |
| 1D56F | 𝔻 | MATHEMATICAL BOLD FRAKTUR CAPITAL D<br>≈ <font> 0044 <b>D</b> latin capital letter d |
| 1D570 | 𝔼 | MATHEMATICAL BOLD FRAKTUR CAPITAL E<br>≈ <font> 0045 <b>E</b> latin capital letter e |
| 1D571 | 𝔽 | MATHEMATICAL BOLD FRAKTUR CAPITAL F<br>≈ <font> 0046 <b>F</b> latin capital letter f |
| 1D572 | 𝔾 | MATHEMATICAL BOLD FRAKTUR CAPITAL G<br>≈ <font> 0047 <b>G</b> latin capital letter g |
| 1D573 | 𝔿 | MATHEMATICAL BOLD FRAKTUR CAPITAL H<br>≈ <font> 0048 <b>H</b> latin capital letter h |
| 1D574 | 𝕀 | MATHEMATICAL BOLD FRAKTUR CAPITAL I<br>≈ <font> 0049 <b>I</b> latin capital letter i |
| 1D575 | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL J<br>≈ <font> 004A <b>J</b> latin capital letter j |
| 1D576 | 𝕀 | MATHEMATICAL BOLD FRAKTUR CAPITAL K<br>≈ <font> 004B <b>K</b> latin capital letter k |
| 1D577 | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL L<br>≈ <font> 004C <b>L</b> latin capital letter l |
| 1D578 | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL M<br>≈ <font> 004D <b>M</b> latin capital letter m |
| 1D579 | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL N<br>≈ <font> 004E <b>N</b> latin capital letter n |
| 1D57A | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL O<br>≈ <font> 004F <b>O</b> latin capital letter o |
| 1D57B | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL P<br>≈ <font> 0050 <b>P</b> latin capital letter p |
| 1D57C | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL Q<br>≈ <font> 0051 <b>Q</b> latin capital letter q |
| 1D57D | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL R<br>≈ <font> 0052 <b>R</b> latin capital letter r |
| 1D57E | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL S<br>≈ <font> 0053 <b>S</b> latin capital letter s |
| 1D57F | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL T<br>≈ <font> 0054 <b>T</b> latin capital letter t |
| 1D580 | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL U<br>≈ <font> 0055 <b>U</b> latin capital letter u |
| 1D581 | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL V<br>≈ <font> 0056 <b>V</b> latin capital letter v |
| 1D582 | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL W<br>≈ <font> 0057 <b>W</b> latin capital letter w |
| 1D583 | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL X<br>≈ <font> 0058 <b>X</b> latin capital letter x |
| 1D584 | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL Y<br>≈ <font> 0059 <b>Y</b> latin capital letter y |
| 1D585 | 𝕁 | MATHEMATICAL BOLD FRAKTUR CAPITAL Z<br>≈ <font> 005A <b>Z</b> latin capital letter z |
| 1D586 | 𝔸 | MATHEMATICAL BOLD FRAKTUR SMALL A<br>≈ <font> 0061 <b>a</b> latin small letter a     |
| 1D587 | 𝔸 | MATHEMATICAL BOLD FRAKTUR SMALL B<br>≈ <font> 0062 <b>b</b> latin small letter b     |
| 1D588 | 𝔸 | MATHEMATICAL BOLD FRAKTUR SMALL C<br>≈ <font> 0063 <b>c</b> latin small letter c     |
| 1D589 | 𝔸 | MATHEMATICAL BOLD FRAKTUR SMALL D<br>≈ <font> 0064 <b>d</b> latin small letter d     |
| 1D58A | 𝔸 | MATHEMATICAL BOLD FRAKTUR SMALL E<br>≈ <font> 0065 <b>e</b> latin small letter e     |
| 1D58B | 𝔸 | MATHEMATICAL BOLD FRAKTUR SMALL F<br>≈ <font> 0066 <b>f</b> latin small letter f     |

|       |          |                                                                                  |
|-------|----------|----------------------------------------------------------------------------------|
| 1D58C | <b>g</b> | MATHEMATICAL BOLD FRAKTUR SMALL G<br>≈ <font> 0067 <b>g</b> latin small letter g |
| 1D58D | <b>h</b> | MATHEMATICAL BOLD FRAKTUR SMALL H<br>≈ <font> 0068 <b>h</b> latin small letter h |
| 1D58E | <b>i</b> | MATHEMATICAL BOLD FRAKTUR SMALL I<br>≈ <font> 0069 <b>i</b> latin small letter i |
| 1D58F | <b>j</b> | MATHEMATICAL BOLD FRAKTUR SMALL J<br>≈ <font> 006A <b>j</b> latin small letter j |
| 1D590 | <b>k</b> | MATHEMATICAL BOLD FRAKTUR SMALL K<br>≈ <font> 006B <b>k</b> latin small letter k |
| 1D591 | <b>l</b> | MATHEMATICAL BOLD FRAKTUR SMALL L<br>≈ <font> 006C <b>l</b> latin small letter l |
| 1D592 | <b>m</b> | MATHEMATICAL BOLD FRAKTUR SMALL M<br>≈ <font> 006D <b>m</b> latin small letter m |
| 1D593 | <b>n</b> | MATHEMATICAL BOLD FRAKTUR SMALL N<br>≈ <font> 006E <b>n</b> latin small letter n |
| 1D594 | <b>o</b> | MATHEMATICAL BOLD FRAKTUR SMALL O<br>≈ <font> 006F <b>o</b> latin small letter o |
| 1D595 | <b>p</b> | MATHEMATICAL BOLD FRAKTUR SMALL P<br>≈ <font> 0070 <b>p</b> latin small letter p |
| 1D596 | <b>q</b> | MATHEMATICAL BOLD FRAKTUR SMALL Q<br>≈ <font> 0071 <b>q</b> latin small letter q |
| 1D597 | <b>r</b> | MATHEMATICAL BOLD FRAKTUR SMALL R<br>≈ <font> 0072 <b>r</b> latin small letter r |
| 1D598 | <b>s</b> | MATHEMATICAL BOLD FRAKTUR SMALL S<br>≈ <font> 0073 <b>s</b> latin small letter s |
| 1D599 | <b>t</b> | MATHEMATICAL BOLD FRAKTUR SMALL T<br>≈ <font> 0074 <b>t</b> latin small letter t |
| 1D59A | <b>u</b> | MATHEMATICAL BOLD FRAKTUR SMALL U<br>≈ <font> 0075 <b>u</b> latin small letter u |
| 1D59B | <b>v</b> | MATHEMATICAL BOLD FRAKTUR SMALL V<br>≈ <font> 0076 <b>v</b> latin small letter v |
| 1D59C | <b>w</b> | MATHEMATICAL BOLD FRAKTUR SMALL W<br>≈ <font> 0077 <b>w</b> latin small letter w |
| 1D59D | <b>x</b> | MATHEMATICAL BOLD FRAKTUR SMALL X<br>≈ <font> 0078 <b>x</b> latin small letter x |
| 1D59E | <b>y</b> | MATHEMATICAL BOLD FRAKTUR SMALL Y<br>≈ <font> 0079 <b>y</b> latin small letter y |
| 1D59F | <b>z</b> | MATHEMATICAL BOLD FRAKTUR SMALL Z<br>≈ <font> 007A <b>z</b> latin small letter z |

**Sans-serif symbols**

|       |          |                                                                                    |
|-------|----------|------------------------------------------------------------------------------------|
| 1D5A0 | <b>A</b> | MATHEMATICAL SANS-SERIF CAPITAL A<br>≈ <font> 0041 <b>A</b> latin capital letter a |
| 1D5A1 | <b>B</b> | MATHEMATICAL SANS-SERIF CAPITAL B<br>≈ <font> 0042 <b>B</b> latin capital letter b |
| 1D5A2 | <b>C</b> | MATHEMATICAL SANS-SERIF CAPITAL C<br>≈ <font> 0043 <b>C</b> latin capital letter c |
| 1D5A3 | <b>D</b> | MATHEMATICAL SANS-SERIF CAPITAL D<br>≈ <font> 0044 <b>D</b> latin capital letter d |
| 1D5A4 | <b>E</b> | MATHEMATICAL SANS-SERIF CAPITAL E<br>≈ <font> 0045 <b>E</b> latin capital letter e |
| 1D5A5 | <b>F</b> | MATHEMATICAL SANS-SERIF CAPITAL F<br>≈ <font> 0046 <b>F</b> latin capital letter f |
| 1D5A6 | <b>G</b> | MATHEMATICAL SANS-SERIF CAPITAL G<br>≈ <font> 0047 <b>G</b> latin capital letter g |
| 1D5A7 | <b>H</b> | MATHEMATICAL SANS-SERIF CAPITAL H<br>≈ <font> 0048 <b>H</b> latin capital letter h |
| 1D5A8 | <b>I</b> | MATHEMATICAL SANS-SERIF CAPITAL I<br>≈ <font> 0049 <b>I</b> latin capital letter i |
| 1D5A9 | <b>J</b> | MATHEMATICAL SANS-SERIF CAPITAL J<br>≈ <font> 004A <b>J</b> latin capital letter j |

|       |          |                                                                                    |
|-------|----------|------------------------------------------------------------------------------------|
| 1D5AA | <b>K</b> | MATHEMATICAL SANS-SERIF CAPITAL K<br>≈ <font> 004B <b>K</b> latin capital letter k |
| 1D5AB | <b>L</b> | MATHEMATICAL SANS-SERIF CAPITAL L<br>≈ <font> 004C <b>L</b> latin capital letter l |
| 1D5AC | <b>M</b> | MATHEMATICAL SANS-SERIF CAPITAL M<br>≈ <font> 004D <b>M</b> latin capital letter m |
| 1D5AD | <b>N</b> | MATHEMATICAL SANS-SERIF CAPITAL N<br>≈ <font> 004E <b>N</b> latin capital letter n |
| 1D5AE | <b>O</b> | MATHEMATICAL SANS-SERIF CAPITAL O<br>≈ <font> 004F <b>O</b> latin capital letter o |
| 1D5AF | <b>P</b> | MATHEMATICAL SANS-SERIF CAPITAL P<br>≈ <font> 0050 <b>P</b> latin capital letter p |
| 1D5B0 | <b>Q</b> | MATHEMATICAL SANS-SERIF CAPITAL Q<br>≈ <font> 0051 <b>Q</b> latin capital letter q |
| 1D5B1 | <b>R</b> | MATHEMATICAL SANS-SERIF CAPITAL R<br>≈ <font> 0052 <b>R</b> latin capital letter r |
| 1D5B2 | <b>S</b> | MATHEMATICAL SANS-SERIF CAPITAL S<br>≈ <font> 0053 <b>S</b> latin capital letter s |
| 1D5B3 | <b>T</b> | MATHEMATICAL SANS-SERIF CAPITAL T<br>≈ <font> 0054 <b>T</b> latin capital letter t |
| 1D5B4 | <b>U</b> | MATHEMATICAL SANS-SERIF CAPITAL U<br>≈ <font> 0055 <b>U</b> latin capital letter u |
| 1D5B5 | <b>V</b> | MATHEMATICAL SANS-SERIF CAPITAL V<br>≈ <font> 0056 <b>V</b> latin capital letter v |
| 1D5B6 | <b>W</b> | MATHEMATICAL SANS-SERIF CAPITAL W<br>≈ <font> 0057 <b>W</b> latin capital letter w |
| 1D5B7 | <b>X</b> | MATHEMATICAL SANS-SERIF CAPITAL X<br>≈ <font> 0058 <b>X</b> latin capital letter x |
| 1D5B8 | <b>Y</b> | MATHEMATICAL SANS-SERIF CAPITAL Y<br>≈ <font> 0059 <b>Y</b> latin capital letter y |
| 1D5B9 | <b>Z</b> | MATHEMATICAL SANS-SERIF CAPITAL Z<br>≈ <font> 005A <b>Z</b> latin capital letter z |
| 1D5BA | <b>a</b> | MATHEMATICAL SANS-SERIF SMALL A<br>≈ <font> 0061 <b>a</b> latin small letter a     |
| 1D5BB | <b>b</b> | MATHEMATICAL SANS-SERIF SMALL B<br>≈ <font> 0062 <b>b</b> latin small letter b     |
| 1D5BC | <b>c</b> | MATHEMATICAL SANS-SERIF SMALL C<br>≈ <font> 0063 <b>c</b> latin small letter c     |
| 1D5BD | <b>d</b> | MATHEMATICAL SANS-SERIF SMALL D<br>≈ <font> 0064 <b>d</b> latin small letter d     |
| 1D5BE | <b>e</b> | MATHEMATICAL SANS-SERIF SMALL E<br>≈ <font> 0065 <b>e</b> latin small letter e     |
| 1D5BF | <b>f</b> | MATHEMATICAL SANS-SERIF SMALL F<br>≈ <font> 0066 <b>f</b> latin small letter f     |
| 1D5C0 | <b>g</b> | MATHEMATICAL SANS-SERIF SMALL G<br>≈ <font> 0067 <b>g</b> latin small letter g     |
| 1D5C1 | <b>h</b> | MATHEMATICAL SANS-SERIF SMALL H<br>≈ <font> 0068 <b>h</b> latin small letter h     |
| 1D5C2 | <b>i</b> | MATHEMATICAL SANS-SERIF SMALL I<br>≈ <font> 0069 <b>i</b> latin small letter i     |
| 1D5C3 | <b>j</b> | MATHEMATICAL SANS-SERIF SMALL J<br>≈ <font> 006A <b>j</b> latin small letter j     |
| 1D5C4 | <b>k</b> | MATHEMATICAL SANS-SERIF SMALL K<br>≈ <font> 006B <b>k</b> latin small letter k     |
| 1D5C5 | <b>l</b> | MATHEMATICAL SANS-SERIF SMALL L<br>≈ <font> 006C <b>l</b> latin small letter l     |
| 1D5C6 | <b>m</b> | MATHEMATICAL SANS-SERIF SMALL M<br>≈ <font> 006D <b>m</b> latin small letter m     |
| 1D5C7 | <b>n</b> | MATHEMATICAL SANS-SERIF SMALL N<br>≈ <font> 006E <b>n</b> latin small letter n     |
| 1D5C8 | <b>o</b> | MATHEMATICAL SANS-SERIF SMALL O<br>≈ <font> 006F <b>o</b> latin small letter o     |

|       |          |                                                                                |
|-------|----------|--------------------------------------------------------------------------------|
| 1D5C9 | <b>p</b> | MATHEMATICAL SANS-SERIF SMALL P<br>≈ <font> 0070 <b>p</b> latin small letter p |
| 1D5CA | <b>q</b> | MATHEMATICAL SANS-SERIF SMALL Q<br>≈ <font> 0071 <b>q</b> latin small letter q |
| 1D5CB | <b>r</b> | MATHEMATICAL SANS-SERIF SMALL R<br>≈ <font> 0072 <b>r</b> latin small letter r |
| 1D5CC | <b>s</b> | MATHEMATICAL SANS-SERIF SMALL S<br>≈ <font> 0073 <b>s</b> latin small letter s |
| 1D5CD | <b>t</b> | MATHEMATICAL SANS-SERIF SMALL T<br>≈ <font> 0074 <b>t</b> latin small letter t |
| 1D5CE | <b>u</b> | MATHEMATICAL SANS-SERIF SMALL U<br>≈ <font> 0075 <b>u</b> latin small letter u |
| 1D5CF | <b>v</b> | MATHEMATICAL SANS-SERIF SMALL V<br>≈ <font> 0076 <b>v</b> latin small letter v |
| 1D5D0 | <b>w</b> | MATHEMATICAL SANS-SERIF SMALL W<br>≈ <font> 0077 <b>w</b> latin small letter w |
| 1D5D1 | <b>x</b> | MATHEMATICAL SANS-SERIF SMALL X<br>≈ <font> 0078 <b>x</b> latin small letter x |
| 1D5D2 | <b>y</b> | MATHEMATICAL SANS-SERIF SMALL Y<br>≈ <font> 0079 <b>y</b> latin small letter y |
| 1D5D3 | <b>z</b> | MATHEMATICAL SANS-SERIF SMALL Z<br>≈ <font> 007A <b>z</b> latin small letter z |

**Sans-serif bold symbols**

|       |          |                                                                                         |
|-------|----------|-----------------------------------------------------------------------------------------|
| 1D5D4 | <b>A</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL A<br>≈ <font> 0041 <b>A</b> latin capital letter a |
| 1D5D5 | <b>B</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL B<br>≈ <font> 0042 <b>B</b> latin capital letter b |
| 1D5D6 | <b>C</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL C<br>≈ <font> 0043 <b>C</b> latin capital letter c |
| 1D5D7 | <b>D</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL D<br>≈ <font> 0044 <b>D</b> latin capital letter d |
| 1D5D8 | <b>E</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL E<br>≈ <font> 0045 <b>E</b> latin capital letter e |
| 1D5D9 | <b>F</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL F<br>≈ <font> 0046 <b>F</b> latin capital letter f |
| 1D5DA | <b>G</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL G<br>≈ <font> 0047 <b>G</b> latin capital letter g |
| 1D5DB | <b>H</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL H<br>≈ <font> 0048 <b>H</b> latin capital letter h |
| 1D5DC | <b>I</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL I<br>≈ <font> 0049 <b>I</b> latin capital letter i |
| 1D5DD | <b>J</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL J<br>≈ <font> 004A <b>J</b> latin capital letter j |
| 1D5DE | <b>K</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL K<br>≈ <font> 004B <b>K</b> latin capital letter k |
| 1D5DF | <b>L</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL L<br>≈ <font> 004C <b>L</b> latin capital letter l |
| 1D5E0 | <b>M</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL M<br>≈ <font> 004D <b>M</b> latin capital letter m |
| 1D5E1 | <b>N</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL N<br>≈ <font> 004E <b>N</b> latin capital letter n |
| 1D5E2 | <b>O</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL O<br>≈ <font> 004F <b>O</b> latin capital letter o |
| 1D5E3 | <b>P</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL P<br>≈ <font> 0050 <b>P</b> latin capital letter p |
| 1D5E4 | <b>Q</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL Q<br>≈ <font> 0051 <b>Q</b> latin capital letter q |
| 1D5E5 | <b>R</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL R<br>≈ <font> 0052 <b>R</b> latin capital letter r |
| 1D5E6 | <b>S</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL S<br>≈ <font> 0053 <b>S</b> latin capital letter s |

|       |          |                                                                                         |
|-------|----------|-----------------------------------------------------------------------------------------|
| 1D5E7 | <b>T</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL T<br>≈ <font> 0054 <b>T</b> latin capital letter t |
| 1D5E8 | <b>U</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL U<br>≈ <font> 0055 <b>U</b> latin capital letter u |
| 1D5E9 | <b>V</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL V<br>≈ <font> 0056 <b>V</b> latin capital letter v |
| 1D5EA | <b>W</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL W<br>≈ <font> 0057 <b>W</b> latin capital letter w |
| 1D5EB | <b>X</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL X<br>≈ <font> 0058 <b>X</b> latin capital letter x |
| 1D5EC | <b>Y</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL Y<br>≈ <font> 0059 <b>Y</b> latin capital letter y |
| 1D5ED | <b>Z</b> | MATHEMATICAL SANS-SERIF BOLD CAPITAL Z<br>≈ <font> 005A <b>Z</b> latin capital letter z |
| 1D5EE | <b>a</b> | MATHEMATICAL SANS-SERIF BOLD SMALL A<br>≈ <font> 0061 <b>a</b> latin small letter a     |
| 1D5EF | <b>b</b> | MATHEMATICAL SANS-SERIF BOLD SMALL B<br>≈ <font> 0062 <b>b</b> latin small letter b     |
| 1D5F0 | <b>c</b> | MATHEMATICAL SANS-SERIF BOLD SMALL C<br>≈ <font> 0063 <b>c</b> latin small letter c     |
| 1D5F1 | <b>d</b> | MATHEMATICAL SANS-SERIF BOLD SMALL D<br>≈ <font> 0064 <b>d</b> latin small letter d     |
| 1D5F2 | <b>e</b> | MATHEMATICAL SANS-SERIF BOLD SMALL E<br>≈ <font> 0065 <b>e</b> latin small letter e     |
| 1D5F3 | <b>f</b> | MATHEMATICAL SANS-SERIF BOLD SMALL F<br>≈ <font> 0066 <b>f</b> latin small letter f     |
| 1D5F4 | <b>g</b> | MATHEMATICAL SANS-SERIF BOLD SMALL G<br>≈ <font> 0067 <b>g</b> latin small letter g     |
| 1D5F5 | <b>h</b> | MATHEMATICAL SANS-SERIF BOLD SMALL H<br>≈ <font> 0068 <b>h</b> latin small letter h     |
| 1D5F6 | <b>i</b> | MATHEMATICAL SANS-SERIF BOLD SMALL I<br>≈ <font> 0069 <b>i</b> latin small letter i     |
| 1D5F7 | <b>j</b> | MATHEMATICAL SANS-SERIF BOLD SMALL J<br>≈ <font> 006A <b>j</b> latin small letter j     |
| 1D5F8 | <b>k</b> | MATHEMATICAL SANS-SERIF BOLD SMALL K<br>≈ <font> 006B <b>k</b> latin small letter k     |
| 1D5F9 | <b>l</b> | MATHEMATICAL SANS-SERIF BOLD SMALL L<br>≈ <font> 006C <b>l</b> latin small letter l     |
| 1D5FA | <b>m</b> | MATHEMATICAL SANS-SERIF BOLD SMALL M<br>≈ <font> 006D <b>m</b> latin small letter m     |
| 1D5FB | <b>n</b> | MATHEMATICAL SANS-SERIF BOLD SMALL N<br>≈ <font> 006E <b>n</b> latin small letter n     |
| 1D5FC | <b>o</b> | MATHEMATICAL SANS-SERIF BOLD SMALL O<br>≈ <font> 006F <b>o</b> latin small letter o     |
| 1D5FD | <b>p</b> | MATHEMATICAL SANS-SERIF BOLD SMALL P<br>≈ <font> 0070 <b>p</b> latin small letter p     |
| 1D5FE | <b>q</b> | MATHEMATICAL SANS-SERIF BOLD SMALL Q<br>≈ <font> 0071 <b>q</b> latin small letter q     |
| 1D5FF | <b>r</b> | MATHEMATICAL SANS-SERIF BOLD SMALL R<br>≈ <font> 0072 <b>r</b> latin small letter r     |
| 1D600 | <b>s</b> | MATHEMATICAL SANS-SERIF BOLD SMALL S<br>≈ <font> 0073 <b>s</b> latin small letter s     |
| 1D601 | <b>t</b> | MATHEMATICAL SANS-SERIF BOLD SMALL T<br>≈ <font> 0074 <b>t</b> latin small letter t     |
| 1D602 | <b>u</b> | MATHEMATICAL SANS-SERIF BOLD SMALL U<br>≈ <font> 0075 <b>u</b> latin small letter u     |
| 1D603 | <b>v</b> | MATHEMATICAL SANS-SERIF BOLD SMALL V<br>≈ <font> 0076 <b>v</b> latin small letter v     |
| 1D604 | <b>w</b> | MATHEMATICAL SANS-SERIF BOLD SMALL W<br>≈ <font> 0077 <b>w</b> latin small letter w     |
| 1D605 | <b>x</b> | MATHEMATICAL SANS-SERIF BOLD SMALL X<br>≈ <font> 0078 <b>x</b> latin small letter x     |

1D606 **y** MATHEMATICAL SANS-SERIF BOLD SMALL Y

≈ <font> 0079 **y** latin small letter y

1D607 **z** MATHEMATICAL SANS-SERIF BOLD SMALL Z

≈ <font> 007A **z** latin small letter z

#### Sans-serif italic symbols

1D608 **A** MATHEMATICAL SANS-SERIF ITALIC CAPITAL A  
≈ <font> 0041 **A** latin capital letter a

1D609 **B** MATHEMATICAL SANS-SERIF ITALIC CAPITAL B  
≈ <font> 0042 **B** latin capital letter b

1D60A **C** MATHEMATICAL SANS-SERIF ITALIC CAPITAL C  
≈ <font> 0043 **C** latin capital letter c

1D60B **D** MATHEMATICAL SANS-SERIF ITALIC CAPITAL D  
≈ <font> 0044 **D** latin capital letter d

1D60C **E** MATHEMATICAL SANS-SERIF ITALIC CAPITAL E  
≈ <font> 0045 **E** latin capital letter e

1D60D **F** MATHEMATICAL SANS-SERIF ITALIC CAPITAL F  
≈ <font> 0046 **F** latin capital letter f

1D60E **G** MATHEMATICAL SANS-SERIF ITALIC CAPITAL G  
≈ <font> 0047 **G** latin capital letter g

1D60F **H** MATHEMATICAL SANS-SERIF ITALIC CAPITAL H  
≈ <font> 0048 **H** latin capital letter h

1D610 **I** MATHEMATICAL SANS-SERIF ITALIC CAPITAL I  
≈ <font> 0049 **I** latin capital letter i

1D611 **J** MATHEMATICAL SANS-SERIF ITALIC CAPITAL J  
≈ <font> 004A **J** latin capital letter j

1D612 **K** MATHEMATICAL SANS-SERIF ITALIC CAPITAL K  
≈ <font> 004B **K** latin capital letter k

1D613 **L** MATHEMATICAL SANS-SERIF ITALIC CAPITAL L  
≈ <font> 004C **L** latin capital letter l

1D614 **M** MATHEMATICAL SANS-SERIF ITALIC CAPITAL M  
≈ <font> 004D **M** latin capital letter m

1D615 **N** MATHEMATICAL SANS-SERIF ITALIC CAPITAL N  
≈ <font> 004E **N** latin capital letter n

1D616 **O** MATHEMATICAL SANS-SERIF ITALIC CAPITAL O  
≈ <font> 004F **O** latin capital letter o

1D617 **P** MATHEMATICAL SANS-SERIF ITALIC CAPITAL P  
≈ <font> 0050 **P** latin capital letter p

1D618 **Q** MATHEMATICAL SANS-SERIF ITALIC CAPITAL Q  
≈ <font> 0051 **Q** latin capital letter q

1D619 **R** MATHEMATICAL SANS-SERIF ITALIC CAPITAL R  
≈ <font> 0052 **R** latin capital letter r

1D61A **S** MATHEMATICAL SANS-SERIF ITALIC CAPITAL S  
≈ <font> 0053 **S** latin capital letter s

1D61B **T** MATHEMATICAL SANS-SERIF ITALIC CAPITAL T  
≈ <font> 0054 **T** latin capital letter t

1D61C **U** MATHEMATICAL SANS-SERIF ITALIC CAPITAL U  
≈ <font> 0055 **U** latin capital letter u

1D61D **V** MATHEMATICAL SANS-SERIF ITALIC CAPITAL V  
≈ <font> 0056 **V** latin capital letter v

1D61E **W** MATHEMATICAL SANS-SERIF ITALIC CAPITAL W  
≈ <font> 0057 **W** latin capital letter w

1D61F **X** MATHEMATICAL SANS-SERIF ITALIC CAPITAL X  
≈ <font> 0058 **X** latin capital letter x

1D620 **Y** MATHEMATICAL SANS-SERIF ITALIC CAPITAL Y  
≈ <font> 0059 **Y** latin capital letter y

1D621 **Z** MATHEMATICAL SANS-SERIF ITALIC CAPITAL Z  
≈ <font> 005A **Z** latin capital letter z

1D622 **a** MATHEMATICAL SANS-SERIF ITALIC SMALL A  
≈ <font> 0061 **a** latin small letter a

1D623 **b** MATHEMATICAL SANS-SERIF ITALIC SMALL B  
≈ <font> 0062 **b** latin small letter b

1D624 **c** MATHEMATICAL SANS-SERIF ITALIC SMALL C  
≈ <font> 0063 **c** latin small letter c

1D625 **d** MATHEMATICAL SANS-SERIF ITALIC SMALL D  
≈ <font> 0064 **d** latin small letter d

1D626 **e** MATHEMATICAL SANS-SERIF ITALIC SMALL E  
≈ <font> 0065 **e** latin small letter e

1D627 **f** MATHEMATICAL SANS-SERIF ITALIC SMALL F  
≈ <font> 0066 **f** latin small letter f

1D628 **g** MATHEMATICAL SANS-SERIF ITALIC SMALL G  
≈ <font> 0067 **g** latin small letter g

1D629 **h** MATHEMATICAL SANS-SERIF ITALIC SMALL H  
≈ <font> 0068 **h** latin small letter h

1D62A **i** MATHEMATICAL SANS-SERIF ITALIC SMALL I  
≈ <font> 0069 **i** latin small letter i

1D62B **j** MATHEMATICAL SANS-SERIF ITALIC SMALL J  
≈ <font> 006A **j** latin small letter j

1D62C **k** MATHEMATICAL SANS-SERIF ITALIC SMALL K  
≈ <font> 006B **k** latin small letter k

1D62D **l** MATHEMATICAL SANS-SERIF ITALIC SMALL L  
≈ <font> 006C **l** latin small letter l

1D62E **m** MATHEMATICAL SANS-SERIF ITALIC SMALL M  
≈ <font> 006D **m** latin small letter m

1D62F **n** MATHEMATICAL SANS-SERIF ITALIC SMALL N  
≈ <font> 006E **n** latin small letter n

1D630 **o** MATHEMATICAL SANS-SERIF ITALIC SMALL O  
≈ <font> 006F **o** latin small letter o

1D631 **p** MATHEMATICAL SANS-SERIF ITALIC SMALL P  
≈ <font> 0070 **p** latin small letter p

1D632 **q** MATHEMATICAL SANS-SERIF ITALIC SMALL Q  
≈ <font> 0071 **q** latin small letter q

1D633 **r** MATHEMATICAL SANS-SERIF ITALIC SMALL R  
≈ <font> 0072 **r** latin small letter r

1D634 **s** MATHEMATICAL SANS-SERIF ITALIC SMALL S  
≈ <font> 0073 **s** latin small letter s

1D635 **t** MATHEMATICAL SANS-SERIF ITALIC SMALL T  
≈ <font> 0074 **t** latin small letter t

1D636 **u** MATHEMATICAL SANS-SERIF ITALIC SMALL U  
≈ <font> 0075 **u** latin small letter u

1D637 **v** MATHEMATICAL SANS-SERIF ITALIC SMALL V  
≈ <font> 0076 **v** latin small letter v

1D638 **w** MATHEMATICAL SANS-SERIF ITALIC SMALL W  
≈ <font> 0077 **w** latin small letter w

1D639 **x** MATHEMATICAL SANS-SERIF ITALIC SMALL X  
≈ <font> 0078 **x** latin small letter x

1D63A **y** MATHEMATICAL SANS-SERIF ITALIC SMALL Y  
≈ <font> 0079 **y** latin small letter y

1D63B **z** MATHEMATICAL SANS-SERIF ITALIC SMALL Z  
≈ <font> 007A **z** latin small letter z

#### Sans-serif bold italic symbols

1D63C **A** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL A

≈ <font> 0041 **A** latin capital letter a

1D63D **B** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL B

≈ <font> 0042 **B** latin capital letter b

1D63E **C** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL C

≈ <font> 0043 **C** latin capital letter c

1D63F **D** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL D

≈ <font> 0044 **D** latin capital letter d

1D640 **E** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL E  
 ≈ <font> 0045 **E** latin capital letter e

1D641 **F** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL F  
 ≈ <font> 0046 **F** latin capital letter f

1D642 **G** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL G  
 ≈ <font> 0047 **G** latin capital letter g

1D643 **H** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL H  
 ≈ <font> 0048 **H** latin capital letter h

1D644 **I** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL I  
 ≈ <font> 0049 **I** latin capital letter i

1D645 **J** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL J  
 ≈ <font> 004A **J** latin capital letter j

1D646 **K** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL K  
 ≈ <font> 004B **K** latin capital letter k

1D647 **L** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL L  
 ≈ <font> 004C **L** latin capital letter l

1D648 **M** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL M  
 ≈ <font> 004D **M** latin capital letter m

1D649 **N** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL N  
 ≈ <font> 004E **N** latin capital letter n

1D64A **O** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL O  
 ≈ <font> 004F **O** latin capital letter o

1D64B **P** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL P  
 ≈ <font> 0050 **P** latin capital letter p

1D64C **Q** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL Q  
 ≈ <font> 0051 **Q** latin capital letter q

1D64D **R** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL R  
 ≈ <font> 0052 **R** latin capital letter r

1D64E **S** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL S  
 ≈ <font> 0053 **S** latin capital letter s

1D64F **T** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL T  
 ≈ <font> 0054 **T** latin capital letter t

1D650 **U** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL U  
 ≈ <font> 0055 **U** latin capital letter u

1D651 **V** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL V  
 ≈ <font> 0056 **V** latin capital letter v

1D652 **W** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL W  
 ≈ <font> 0057 **W** latin capital letter w

1D653 **X** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL X  
 ≈ <font> 0058 **X** latin capital letter x

1D654 **Y** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL Y  
 ≈ <font> 0059 **Y** latin capital letter y

1D655 **Z** MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL Z  
 ≈ <font> 005A **Z** latin capital letter z

1D656 **a** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL A  
 ≈ <font> 0061 **a** latin small letter a

1D657 **b** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL B  
 ≈ <font> 0062 **b** latin small letter b

1D658 **c** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL C  
 ≈ <font> 0063 **c** latin small letter c

1D659 **d** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL D  
 ≈ <font> 0064 **d** latin small letter d

1D65A **e** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL E  
 ≈ <font> 0065 **e** latin small letter e

1D65B **f** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL F  
 ≈ <font> 0066 **f** latin small letter f

1D65C **g** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL G  
 ≈ <font> 0067 **g** latin small letter g

1D65D **h** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL H  
 ≈ <font> 0068 **h** latin small letter h

1D65E **i** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL I  
 ≈ <font> 0069 **i** latin small letter i

1D65F **j** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL J  
 ≈ <font> 006A **j** latin small letter j

1D660 **k** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL K  
 ≈ <font> 006B **k** latin small letter k

1D661 **l** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL L  
 ≈ <font> 006C **l** latin small letter l

1D662 **m** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL M  
 ≈ <font> 006D **m** latin small letter m

1D663 **n** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL N  
 ≈ <font> 006E **n** latin small letter n

1D664 **o** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL O  
 ≈ <font> 006F **o** latin small letter o

1D665 **p** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL P  
 ≈ <font> 0070 **p** latin small letter p

1D666 **q** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL Q  
 ≈ <font> 0071 **q** latin small letter q

1D667 **r** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL R  
 ≈ <font> 0072 **r** latin small letter r

1D668 **s** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL S  
 ≈ <font> 0073 **s** latin small letter s

1D669 **t** MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL T  
 ≈ <font> 0074 **t** latin small letter t



|       |          |                                                                                            |
|-------|----------|--------------------------------------------------------------------------------------------|
| 1D66A | <b>u</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL U<br>≈ <font> 0075 <b>u</b> latin small letter u |
| 1D66B | <b>v</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL V<br>≈ <font> 0076 <b>v</b> latin small letter v |
| 1D66C | <b>w</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL W<br>≈ <font> 0077 <b>w</b> latin small letter w |
| 1D66D | <b>x</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL X<br>≈ <font> 0078 <b>x</b> latin small letter x |
| 1D66E | <b>y</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL Y<br>≈ <font> 0079 <b>y</b> latin small letter y |
| 1D66F | <b>z</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL Z<br>≈ <font> 007A <b>z</b> latin small letter z |

**Monospace symbols**

|       |          |                                                                                   |
|-------|----------|-----------------------------------------------------------------------------------|
| 1D670 | <b>A</b> | MATHEMATICAL MONOSPACE CAPITAL A<br>≈ <font> 0041 <b>A</b> latin capital letter a |
| 1D671 | <b>B</b> | MATHEMATICAL MONOSPACE CAPITAL B<br>≈ <font> 0042 <b>B</b> latin capital letter b |
| 1D672 | <b>C</b> | MATHEMATICAL MONOSPACE CAPITAL C<br>≈ <font> 0043 <b>C</b> latin capital letter c |
| 1D673 | <b>D</b> | MATHEMATICAL MONOSPACE CAPITAL D<br>≈ <font> 0044 <b>D</b> latin capital letter d |
| 1D674 | <b>E</b> | MATHEMATICAL MONOSPACE CAPITAL E<br>≈ <font> 0045 <b>E</b> latin capital letter e |
| 1D675 | <b>F</b> | MATHEMATICAL MONOSPACE CAPITAL F<br>≈ <font> 0046 <b>F</b> latin capital letter f |
| 1D676 | <b>G</b> | MATHEMATICAL MONOSPACE CAPITAL G<br>≈ <font> 0047 <b>G</b> latin capital letter g |
| 1D677 | <b>H</b> | MATHEMATICAL MONOSPACE CAPITAL H<br>≈ <font> 0048 <b>H</b> latin capital letter h |
| 1D678 | <b>I</b> | MATHEMATICAL MONOSPACE CAPITAL I<br>≈ <font> 0049 <b>I</b> latin capital letter i |
| 1D679 | <b>J</b> | MATHEMATICAL MONOSPACE CAPITAL J<br>≈ <font> 004A <b>J</b> latin capital letter j |
| 1D67A | <b>K</b> | MATHEMATICAL MONOSPACE CAPITAL K<br>≈ <font> 004B <b>K</b> latin capital letter k |
| 1D67B | <b>L</b> | MATHEMATICAL MONOSPACE CAPITAL L<br>≈ <font> 004C <b>L</b> latin capital letter l |
| 1D67C | <b>M</b> | MATHEMATICAL MONOSPACE CAPITAL M<br>≈ <font> 004D <b>M</b> latin capital letter m |
| 1D67D | <b>N</b> | MATHEMATICAL MONOSPACE CAPITAL N<br>≈ <font> 004E <b>N</b> latin capital letter n |
| 1D67E | <b>O</b> | MATHEMATICAL MONOSPACE CAPITAL O<br>≈ <font> 004F <b>O</b> latin capital letter o |
| 1D67F | <b>P</b> | MATHEMATICAL MONOSPACE CAPITAL P<br>≈ <font> 0050 <b>P</b> latin capital letter p |
| 1D680 | <b>Q</b> | MATHEMATICAL MONOSPACE CAPITAL Q<br>≈ <font> 0051 <b>Q</b> latin capital letter q |
| 1D681 | <b>R</b> | MATHEMATICAL MONOSPACE CAPITAL R<br>≈ <font> 0052 <b>R</b> latin capital letter r |
| 1D682 | <b>S</b> | MATHEMATICAL MONOSPACE CAPITAL S<br>≈ <font> 0053 <b>S</b> latin capital letter s |
| 1D683 | <b>T</b> | MATHEMATICAL MONOSPACE CAPITAL T<br>≈ <font> 0054 <b>T</b> latin capital letter t |
| 1D684 | <b>U</b> | MATHEMATICAL MONOSPACE CAPITAL U<br>≈ <font> 0055 <b>U</b> latin capital letter u |
| 1D685 | <b>V</b> | MATHEMATICAL MONOSPACE CAPITAL V<br>≈ <font> 0056 <b>V</b> latin capital letter v |

|       |          |                                                                                   |
|-------|----------|-----------------------------------------------------------------------------------|
| 1D686 | <b>W</b> | MATHEMATICAL MONOSPACE CAPITAL W<br>≈ <font> 0057 <b>W</b> latin capital letter w |
| 1D687 | <b>X</b> | MATHEMATICAL MONOSPACE CAPITAL X<br>≈ <font> 0058 <b>X</b> latin capital letter x |
| 1D688 | <b>Y</b> | MATHEMATICAL MONOSPACE CAPITAL Y<br>≈ <font> 0059 <b>Y</b> latin capital letter y |
| 1D689 | <b>Z</b> | MATHEMATICAL MONOSPACE CAPITAL Z<br>≈ <font> 005A <b>Z</b> latin capital letter z |
| 1D68A | <b>a</b> | MATHEMATICAL MONOSPACE SMALL A<br>≈ <font> 0061 <b>a</b> latin small letter a     |
| 1D68B | <b>b</b> | MATHEMATICAL MONOSPACE SMALL B<br>≈ <font> 0062 <b>b</b> latin small letter b     |
| 1D68C | <b>c</b> | MATHEMATICAL MONOSPACE SMALL C<br>≈ <font> 0063 <b>c</b> latin small letter c     |
| 1D68D | <b>d</b> | MATHEMATICAL MONOSPACE SMALL D<br>≈ <font> 0064 <b>d</b> latin small letter d     |
| 1D68E | <b>e</b> | MATHEMATICAL MONOSPACE SMALL E<br>≈ <font> 0065 <b>e</b> latin small letter e     |
| 1D68F | <b>f</b> | MATHEMATICAL MONOSPACE SMALL F<br>≈ <font> 0066 <b>f</b> latin small letter f     |
| 1D690 | <b>g</b> | MATHEMATICAL MONOSPACE SMALL G<br>≈ <font> 0067 <b>g</b> latin small letter g     |
| 1D691 | <b>h</b> | MATHEMATICAL MONOSPACE SMALL H<br>≈ <font> 0068 <b>h</b> latin small letter h     |
| 1D692 | <b>i</b> | MATHEMATICAL MONOSPACE SMALL I<br>≈ <font> 0069 <b>i</b> latin small letter i     |
| 1D693 | <b>j</b> | MATHEMATICAL MONOSPACE SMALL J<br>≈ <font> 006A <b>j</b> latin small letter j     |
| 1D694 | <b>k</b> | MATHEMATICAL MONOSPACE SMALL K<br>≈ <font> 006B <b>k</b> latin small letter k     |
| 1D695 | <b>l</b> | MATHEMATICAL MONOSPACE SMALL L<br>≈ <font> 006C <b>l</b> latin small letter l     |
| 1D696 | <b>m</b> | MATHEMATICAL MONOSPACE SMALL M<br>≈ <font> 006D <b>m</b> latin small letter m     |
| 1D697 | <b>n</b> | MATHEMATICAL MONOSPACE SMALL N<br>≈ <font> 006E <b>n</b> latin small letter n     |
| 1D698 | <b>o</b> | MATHEMATICAL MONOSPACE SMALL O<br>≈ <font> 006F <b>o</b> latin small letter o     |
| 1D699 | <b>p</b> | MATHEMATICAL MONOSPACE SMALL P<br>≈ <font> 0070 <b>p</b> latin small letter p     |
| 1D69A | <b>q</b> | MATHEMATICAL MONOSPACE SMALL Q<br>≈ <font> 0071 <b>q</b> latin small letter q     |
| 1D69B | <b>r</b> | MATHEMATICAL MONOSPACE SMALL R<br>≈ <font> 0072 <b>r</b> latin small letter r     |
| 1D69C | <b>s</b> | MATHEMATICAL MONOSPACE SMALL S<br>≈ <font> 0073 <b>s</b> latin small letter s     |
| 1D69D | <b>t</b> | MATHEMATICAL MONOSPACE SMALL T<br>≈ <font> 0074 <b>t</b> latin small letter t     |
| 1D69E | <b>u</b> | MATHEMATICAL MONOSPACE SMALL U<br>≈ <font> 0075 <b>u</b> latin small letter u     |
| 1D69F | <b>v</b> | MATHEMATICAL MONOSPACE SMALL V<br>≈ <font> 0076 <b>v</b> latin small letter v     |
| 1D6A0 | <b>w</b> | MATHEMATICAL MONOSPACE SMALL W<br>≈ <font> 0077 <b>w</b> latin small letter w     |
| 1D6A1 | <b>x</b> | MATHEMATICAL MONOSPACE SMALL X<br>≈ <font> 0078 <b>x</b> latin small letter x     |
| 1D6A2 | <b>y</b> | MATHEMATICAL MONOSPACE SMALL Y<br>≈ <font> 0079 <b>y</b> latin small letter y     |
| 1D6A3 | <b>z</b> | MATHEMATICAL MONOSPACE SMALL Z<br>≈ <font> 007A <b>z</b> latin small letter z     |

**Dotless symbols**

For use as independent symbols. These are not required as base characters for accents since regular *i* and *j* are soft-dotted in Unicode.

|       |          |                                                                                                                                                                                                                     |
|-------|----------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1D6A4 | <i>ı</i> | MATHEMATICAL ITALIC SMALL DOTLESS I<br>= <code>\imath</code><br>→ 0131 <b>ı</b> latin small letter dotless i<br>→ 1D456 <i>ı</i> mathematical italic small i<br>≈ <font> 0131 <b>ı</b> latin small letter dotless i |
| 1D6A5 | <i>j</i> | MATHEMATICAL ITALIC SMALL DOTLESS J<br>= <code>\jmath</code><br>→ 0237 <b>j</b> latin small letter dotless j<br>→ 1D457 <i>j</i> mathematical italic small j<br>≈ <font> 0237 <b>j</b> latin small letter dotless j |

**Ligature long s**

|       |          |                                                                                                                                                                                                                                                                                                    |
|-------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1D6A6 | <i>ſ</i> | MATHEMATICAL ITALIC SMALL LIGATURE LONG S WITH DESCENDER S<br>= <code>sursolidum</code><br>• denotes fifth power of the unknown in historical mathematics<br>→ 1DF95 <i>ſ</i> latin small ligature long s with descender s<br>≈ <font> 1DF95 <i>ſ</i> latin small ligature long s with descender s |
|-------|----------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

**Bold Greek symbols**

|       |          |                                                                                             |
|-------|----------|---------------------------------------------------------------------------------------------|
| 1D6A8 | <b>Α</b> | MATHEMATICAL BOLD CAPITAL ALPHA<br>≈ <font> 0391 <b>Α</b> greek capital letter alpha        |
| 1D6A9 | <b>Β</b> | MATHEMATICAL BOLD CAPITAL BETA<br>≈ <font> 0392 <b>Β</b> greek capital letter beta          |
| 1D6AA | <b>Γ</b> | MATHEMATICAL BOLD CAPITAL GAMMA<br>≈ <font> 0393 <b>Γ</b> greek capital letter gamma        |
| 1D6AB | <b>Δ</b> | MATHEMATICAL BOLD CAPITAL DELTA<br>≈ <font> 0394 <b>Δ</b> greek capital letter delta        |
| 1D6AC | <b>Ε</b> | MATHEMATICAL BOLD CAPITAL EPSILON<br>≈ <font> 0395 <b>Ε</b> greek capital letter epsilon    |
| 1D6AD | <b>Ζ</b> | MATHEMATICAL BOLD CAPITAL ZETA<br>≈ <font> 0396 <b>Ζ</b> greek capital letter zeta          |
| 1D6AE | <b>Η</b> | MATHEMATICAL BOLD CAPITAL ETA<br>≈ <font> 0397 <b>Η</b> greek capital letter eta            |
| 1D6AF | <b>Θ</b> | MATHEMATICAL BOLD CAPITAL THETA<br>≈ <font> 0398 <b>Θ</b> greek capital letter theta        |
| 1D6B0 | <b>Ι</b> | MATHEMATICAL BOLD CAPITAL IOTA<br>≈ <font> 0399 <b>Ι</b> greek capital letter iota          |
| 1D6B1 | <b>Κ</b> | MATHEMATICAL BOLD CAPITAL KAPPA<br>≈ <font> 039A <b>Κ</b> greek capital letter kappa        |
| 1D6B2 | <b>Λ</b> | MATHEMATICAL BOLD CAPITAL LAMDA<br>≈ <font> 039B <b>Λ</b> greek capital letter lamda        |
| 1D6B3 | <b>Μ</b> | MATHEMATICAL BOLD CAPITAL MU<br>≈ <font> 039C <b>Μ</b> greek capital letter mu              |
| 1D6B4 | <b>Ν</b> | MATHEMATICAL BOLD CAPITAL NU<br>≈ <font> 039D <b>Ν</b> greek capital letter nu              |
| 1D6B5 | <b>Ξ</b> | MATHEMATICAL BOLD CAPITAL XI<br>≈ <font> 039E <b>Ξ</b> greek capital letter xi              |
| 1D6B6 | <b>Ο</b> | MATHEMATICAL BOLD CAPITAL OMICRON<br>≈ <font> 039F <b>Ο</b> greek capital letter omicron    |
| 1D6B7 | <b>Π</b> | MATHEMATICAL BOLD CAPITAL PI<br>≈ <font> 03A0 <b>Π</b> greek capital letter pi              |
| 1D6B8 | <b>Ρ</b> | MATHEMATICAL BOLD CAPITAL RHO<br>≈ <font> 03A1 <b>Ρ</b> greek capital letter rho            |
| 1D6B9 | <b>Θ</b> | MATHEMATICAL BOLD CAPITAL THETA SYMBOL<br>≈ <font> 03F4 <b>Θ</b> greek capital theta symbol |

|       |          |                                                                                              |
|-------|----------|----------------------------------------------------------------------------------------------|
| 1D6BA | <b>Σ</b> | MATHEMATICAL BOLD CAPITAL SIGMA<br>≈ <font> 03A3 <b>Σ</b> greek capital letter sigma         |
| 1D6BB | <b>Τ</b> | MATHEMATICAL BOLD CAPITAL TAU<br>≈ <font> 03A4 <b>Τ</b> greek capital letter tau             |
| 1D6BC | <b>Υ</b> | MATHEMATICAL BOLD CAPITAL UPSILON<br>≈ <font> 03A5 <b>Υ</b> greek capital letter upsilon     |
| 1D6BD | <b>Φ</b> | MATHEMATICAL BOLD CAPITAL PHI<br>≈ <font> 03A6 <b>Φ</b> greek capital letter phi             |
| 1D6BE | <b>Χ</b> | MATHEMATICAL BOLD CAPITAL CHI<br>≈ <font> 03A7 <b>Χ</b> greek capital letter chi             |
| 1D6BF | <b>Ψ</b> | MATHEMATICAL BOLD CAPITAL PSI<br>≈ <font> 03A8 <b>Ψ</b> greek capital letter psi             |
| 1D6C0 | <b>Ω</b> | MATHEMATICAL BOLD CAPITAL OMEGA<br>≈ <font> 03A9 <b>Ω</b> greek capital letter omega         |
| 1D6C1 | <b>∇</b> | MATHEMATICAL BOLD NABLA<br>≈ <font> 2207 <b>∇</b> nabla                                      |
| 1D6C2 | <b>α</b> | MATHEMATICAL BOLD SMALL ALPHA<br>≈ <font> 03B1 <b>α</b> greek small letter alpha             |
| 1D6C3 | <b>β</b> | MATHEMATICAL BOLD SMALL BETA<br>≈ <font> 03B2 <b>β</b> greek small letter beta               |
| 1D6C4 | <b>γ</b> | MATHEMATICAL BOLD SMALL GAMMA<br>≈ <font> 03B3 <b>γ</b> greek small letter gamma             |
| 1D6C5 | <b>δ</b> | MATHEMATICAL BOLD SMALL DELTA<br>≈ <font> 03B4 <b>δ</b> greek small letter delta             |
| 1D6C6 | <b>ε</b> | MATHEMATICAL BOLD SMALL EPSILON<br>≈ <font> 03B5 <b>ε</b> greek small letter epsilon         |
| 1D6C7 | <b>ζ</b> | MATHEMATICAL BOLD SMALL ZETA<br>≈ <font> 03B6 <b>ζ</b> greek small letter zeta               |
| 1D6C8 | <b>η</b> | MATHEMATICAL BOLD SMALL ETA<br>≈ <font> 03B7 <b>η</b> greek small letter eta                 |
| 1D6C9 | <b>θ</b> | MATHEMATICAL BOLD SMALL THETA<br>≈ <font> 03B8 <b>θ</b> greek small letter theta             |
| 1D6CA | <b>ι</b> | MATHEMATICAL BOLD SMALL IOTA<br>≈ <font> 03B9 <b>ι</b> greek small letter iota               |
| 1D6CB | <b>κ</b> | MATHEMATICAL BOLD SMALL KAPPA<br>≈ <font> 03BA <b>κ</b> greek small letter kappa             |
| 1D6CC | <b>λ</b> | MATHEMATICAL BOLD SMALL LAMDA<br>≈ <font> 03BB <b>λ</b> greek small letter lamda             |
| 1D6CD | <b>μ</b> | MATHEMATICAL BOLD SMALL MU<br>≈ <font> 03BC <b>μ</b> greek small letter mu                   |
| 1D6CE | <b>ν</b> | MATHEMATICAL BOLD SMALL NU<br>≈ <font> 03BD <b>ν</b> greek small letter nu                   |
| 1D6CF | <b>ξ</b> | MATHEMATICAL BOLD SMALL XI<br>≈ <font> 03BE <b>ξ</b> greek small letter xi                   |
| 1D6D0 | <b>ο</b> | MATHEMATICAL BOLD SMALL OMICRON<br>≈ <font> 03BF <b>ο</b> greek small letter omicron         |
| 1D6D1 | <b>π</b> | MATHEMATICAL BOLD SMALL PI<br>≈ <font> 03C0 <b>π</b> greek small letter pi                   |
| 1D6D2 | <b>ρ</b> | MATHEMATICAL BOLD SMALL RHO<br>≈ <font> 03C1 <b>ρ</b> greek small letter rho                 |
| 1D6D3 | <b>ς</b> | MATHEMATICAL BOLD SMALL FINAL SIGMA<br>≈ <font> 03C2 <b>ς</b> greek small letter final sigma |
| 1D6D4 | <b>σ</b> | MATHEMATICAL BOLD SMALL SIGMA<br>≈ <font> 03C3 <b>σ</b> greek small letter sigma             |
| 1D6D5 | <b>τ</b> | MATHEMATICAL BOLD SMALL TAU<br>≈ <font> 03C4 <b>τ</b> greek small letter tau                 |
| 1D6D6 | <b>υ</b> | MATHEMATICAL BOLD SMALL UPSILON<br>≈ <font> 03C5 <b>υ</b> greek small letter upsilon         |
| 1D6D7 | <b>φ</b> | MATHEMATICAL BOLD SMALL PHI<br>≈ <font> 03C6 <b>φ</b> greek small letter phi                 |
| 1D6D8 | <b>χ</b> | MATHEMATICAL BOLD SMALL CHI<br>≈ <font> 03C7 <b>χ</b> greek small letter chi                 |

1D6D9 **ψ** MATHEMATICAL BOLD SMALL PSI  
 ≈ <font> 03C8 **ψ** greek small letter psi  
 1D6DA **ω** MATHEMATICAL BOLD SMALL OMEGA  
 ≈ <font> 03C9 **ω** greek small letter omega

**Additional bold Greek symbols**

1D6DB **∂** MATHEMATICAL BOLD PARTIAL DIFFERENTIAL  
 ≈ <font> 2202 **∂** partial differential  
 1D6DC **€** MATHEMATICAL BOLD EPSILON SYMBOL  
 ≈ <font> 03F5 **€** greek lunate epsilon symbol  
 1D6DD **θ** MATHEMATICAL BOLD THETA SYMBOL  
 ≈ <font> 03D1 **θ** greek theta symbol  
 1D6DE **κ** MATHEMATICAL BOLD KAPPA SYMBOL  
 ≈ <font> 03F0 **κ** greek kappa symbol  
 1D6DF **φ** MATHEMATICAL BOLD PHI SYMBOL  
 ≈ <font> 03D5 **φ** greek phi symbol  
 1D6E0 **ρ** MATHEMATICAL BOLD RHO SYMBOL  
 ≈ <font> 03F1 **ρ** greek rho symbol  
 1D6E1 **π** MATHEMATICAL BOLD PI SYMBOL  
 ≈ <font> 03D6 **π** greek pi symbol

**Italic Greek symbols**

1D6E2 **Α** MATHEMATICAL ITALIC CAPITAL ALPHA  
 ≈ <font> 0391 **Α** greek capital letter alpha  
 1D6E3 **Β** MATHEMATICAL ITALIC CAPITAL BETA  
 ≈ <font> 0392 **Β** greek capital letter beta  
 1D6E4 **Γ** MATHEMATICAL ITALIC CAPITAL GAMMA  
 ≈ <font> 0393 **Γ** greek capital letter gamma  
 1D6E5 **Δ** MATHEMATICAL ITALIC CAPITAL DELTA  
 ≈ <font> 0394 **Δ** greek capital letter delta  
 1D6E6 **Ε** MATHEMATICAL ITALIC CAPITAL EPSILON  
 ≈ <font> 0395 **Ε** greek capital letter epsilon  
 1D6E7 **Ζ** MATHEMATICAL ITALIC CAPITAL ZETA  
 ≈ <font> 0396 **Ζ** greek capital letter zeta  
 1D6E8 **Η** MATHEMATICAL ITALIC CAPITAL ETA  
 ≈ <font> 0397 **Η** greek capital letter eta  
 1D6E9 **Θ** MATHEMATICAL ITALIC CAPITAL THETA  
 ≈ <font> 0398 **Θ** greek capital letter theta  
 1D6EA **Ι** MATHEMATICAL ITALIC CAPITAL IOTA  
 ≈ <font> 0399 **Ι** greek capital letter iota  
 1D6EB **Κ** MATHEMATICAL ITALIC CAPITAL KAPPA  
 ≈ <font> 039A **Κ** greek capital letter kappa  
 1D6EC **Λ** MATHEMATICAL ITALIC CAPITAL LAMDA  
 ≈ <font> 039B **Λ** greek capital letter lamda  
 1D6ED **Μ** MATHEMATICAL ITALIC CAPITAL MU  
 ≈ <font> 039C **Μ** greek capital letter mu  
 1D6EE **Ν** MATHEMATICAL ITALIC CAPITAL NU  
 ≈ <font> 039D **Ν** greek capital letter nu  
 1D6EF **Ξ** MATHEMATICAL ITALIC CAPITAL XI  
 ≈ <font> 039E **Ξ** greek capital letter xi  
 1D6F0 **Ο** MATHEMATICAL ITALIC CAPITAL OMICRON  
 ≈ <font> 039F **Ο** greek capital letter omicron  
 1D6F1 **Π** MATHEMATICAL ITALIC CAPITAL PI  
 ≈ <font> 03A0 **Π** greek capital letter pi  
 1D6F2 **Ρ** MATHEMATICAL ITALIC CAPITAL RHO  
 ≈ <font> 03A1 **Ρ** greek capital letter rho  
 1D6F3 **Θ** MATHEMATICAL ITALIC CAPITAL THETA SYMBOL  
 ≈ <font> 03F4 **Θ** greek capital theta symbol  
 1D6F4 **Σ** MATHEMATICAL ITALIC CAPITAL SIGMA  
 ≈ <font> 03A3 **Σ** greek capital letter sigma  
 1D6F5 **Τ** MATHEMATICAL ITALIC CAPITAL TAU  
 ≈ <font> 03A4 **Τ** greek capital letter tau

1D6F6 **Υ** MATHEMATICAL ITALIC CAPITAL UPSILON  
 ≈ <font> 03A5 **Υ** greek capital letter upsilon  
 1D6F7 **Φ** MATHEMATICAL ITALIC CAPITAL PHI  
 ≈ <font> 03A6 **Φ** greek capital letter phi  
 1D6F8 **Χ** MATHEMATICAL ITALIC CAPITAL CHI  
 ≈ <font> 03A7 **Χ** greek capital letter chi  
 1D6F9 **Ψ** MATHEMATICAL ITALIC CAPITAL PSI  
 ≈ <font> 03A8 **Ψ** greek capital letter psi  
 1D6FA **Ω** MATHEMATICAL ITALIC CAPITAL OMEGA  
 ≈ <font> 03A9 **Ω** greek capital letter omega  
 1D6FB **∇** MATHEMATICAL ITALIC NABLA  
 ≈ <font> 2207 **∇** nabla  
 1D6FC **α** MATHEMATICAL ITALIC SMALL ALPHA  
 ≈ <font> 03B1 **α** greek small letter alpha  
 1D6FD **β** MATHEMATICAL ITALIC SMALL BETA  
 ≈ <font> 03B2 **β** greek small letter beta  
 1D6FE **γ** MATHEMATICAL ITALIC SMALL GAMMA  
 ≈ <font> 03B3 **γ** greek small letter gamma  
 1D6FF **δ** MATHEMATICAL ITALIC SMALL DELTA  
 ≈ <font> 03B4 **δ** greek small letter delta  
 1D700 **ε** MATHEMATICAL ITALIC SMALL EPSILON  
 ≈ <font> 03B5 **ε** greek small letter epsilon  
 1D701 **ζ** MATHEMATICAL ITALIC SMALL ZETA  
 ≈ <font> 03B6 **ζ** greek small letter zeta  
 1D702 **η** MATHEMATICAL ITALIC SMALL ETA  
 ≈ <font> 03B7 **η** greek small letter eta  
 1D703 **θ** MATHEMATICAL ITALIC SMALL THETA  
 ≈ <font> 03B8 **θ** greek small letter theta  
 1D704 **ι** MATHEMATICAL ITALIC SMALL IOTA  
 ≈ <font> 03B9 **ι** greek small letter iota  
 1D705 **κ** MATHEMATICAL ITALIC SMALL KAPPA  
 ≈ <font> 03BA **κ** greek small letter kappa  
 1D706 **λ** MATHEMATICAL ITALIC SMALL LAMDA  
 ≈ <font> 03BB **λ** greek small letter lamda  
 1D707 **μ** MATHEMATICAL ITALIC SMALL MU  
 ≈ <font> 03BC **μ** greek small letter mu  
 1D708 **ν** MATHEMATICAL ITALIC SMALL NU  
 ≈ <font> 03BD **ν** greek small letter nu  
 1D709 **ξ** MATHEMATICAL ITALIC SMALL XI  
 ≈ <font> 03BE **ξ** greek small letter xi  
 1D70A **ο** MATHEMATICAL ITALIC SMALL OMICRON  
 ≈ <font> 03BF **ο** greek small letter omicron  
 1D70B **π** MATHEMATICAL ITALIC SMALL PI  
 ≈ <font> 03C0 **π** greek small letter pi  
 1D70C **ρ** MATHEMATICAL ITALIC SMALL RHO  
 ≈ <font> 03C1 **ρ** greek small letter rho  
 1D70D **ς** MATHEMATICAL ITALIC SMALL FINAL SIGMA  
 ≈ <font> 03C2 **ς** greek small letter final sigma  
 1D70E **σ** MATHEMATICAL ITALIC SMALL SIGMA  
 ≈ <font> 03C3 **σ** greek small letter sigma  
 1D70F **τ** MATHEMATICAL ITALIC SMALL TAU  
 ≈ <font> 03C4 **τ** greek small letter tau  
 1D710 **υ** MATHEMATICAL ITALIC SMALL UPSILON  
 ≈ <font> 03C5 **υ** greek small letter upsilon  
 1D711 **φ** MATHEMATICAL ITALIC SMALL PHI  
 ≈ <font> 03C6 **φ** greek small letter phi  
 1D712 **χ** MATHEMATICAL ITALIC SMALL CHI  
 ≈ <font> 03C7 **χ** greek small letter chi  
 1D713 **ψ** MATHEMATICAL ITALIC SMALL PSI  
 ≈ <font> 03C8 **ψ** greek small letter psi  
 1D714 **ω** MATHEMATICAL ITALIC SMALL OMEGA  
 ≈ <font> 03C9 **ω** greek small letter omega

**Additional italic Greek symbols**

|       |          |                                                                                          |
|-------|----------|------------------------------------------------------------------------------------------|
| 1D715 | <i>∂</i> | MATHEMATICAL ITALIC PARTIAL DIFFERENTIAL<br>≈ <font> 2202 <i>∂</i> partial differential  |
| 1D716 | <i>ε</i> | MATHEMATICAL ITALIC EPSILON SYMBOL<br>≈ <font> 03F5 <i>ε</i> greek lunate epsilon symbol |
| 1D717 | <i>θ</i> | MATHEMATICAL ITALIC THETA SYMBOL<br>≈ <font> 03D1 <i>θ</i> greek theta symbol            |
| 1D718 | <i>κ</i> | MATHEMATICAL ITALIC KAPPA SYMBOL<br>≈ <font> 03F0 <i>κ</i> greek kappa symbol            |
| 1D719 | <i>φ</i> | MATHEMATICAL ITALIC PHI SYMBOL<br>≈ <font> 03D5 <i>φ</i> greek phi symbol                |
| 1D71A | <i>ρ</i> | MATHEMATICAL ITALIC RHO SYMBOL<br>≈ <font> 03F1 <i>ρ</i> greek rho symbol                |
| 1D71B | <i>π</i> | MATHEMATICAL ITALIC PI SYMBOL<br>≈ <font> 03D6 <i>π</i> greek pi symbol                  |

**Bold italic Greek symbols**

|       |                 |                                                                                                           |
|-------|-----------------|-----------------------------------------------------------------------------------------------------------|
| 1D71C | <b><i>Α</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL ALPHA<br>≈ <font> 0391 <b><i>Α</i></b> greek capital letter alpha        |
| 1D71D | <b><i>Β</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL BETA<br>≈ <font> 0392 <b><i>Β</i></b> greek capital letter beta          |
| 1D71E | <b><i>Γ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL GAMMA<br>≈ <font> 0393 <b><i>Γ</i></b> greek capital letter gamma        |
| 1D71F | <b><i>Δ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL DELTA<br>≈ <font> 0394 <b><i>Δ</i></b> greek capital letter delta        |
| 1D720 | <b><i>Ε</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL EPSILON<br>≈ <font> 0395 <b><i>Ε</i></b> greek capital letter epsilon    |
| 1D721 | <b><i>Ζ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL ZETA<br>≈ <font> 0396 <b><i>Ζ</i></b> greek capital letter zeta          |
| 1D722 | <b><i>Η</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL ETA<br>≈ <font> 0397 <b><i>Η</i></b> greek capital letter eta            |
| 1D723 | <b><i>Θ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL THETA<br>≈ <font> 0398 <b><i>Θ</i></b> greek capital letter theta        |
| 1D724 | <b><i>Ι</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL IOTA<br>≈ <font> 0399 <b><i>Ι</i></b> greek capital letter iota          |
| 1D725 | <b><i>Κ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL KAPPA<br>≈ <font> 039A <b><i>Κ</i></b> greek capital letter kappa        |
| 1D726 | <b><i>Λ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL LAMDA<br>≈ <font> 039B <b><i>Λ</i></b> greek capital letter lamda        |
| 1D727 | <b><i>Μ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL MU<br>≈ <font> 039C <b><i>Μ</i></b> greek capital letter mu              |
| 1D728 | <b><i>Ν</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL NU<br>≈ <font> 039D <b><i>Ν</i></b> greek capital letter nu              |
| 1D729 | <b><i>Ξ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL XI<br>≈ <font> 039E <b><i>Ξ</i></b> greek capital letter xi              |
| 1D72A | <b><i>Ο</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL OMICRON<br>≈ <font> 039F <b><i>Ο</i></b> greek capital letter omicron    |
| 1D72B | <b><i>Π</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL PI<br>≈ <font> 03A0 <b><i>Π</i></b> greek capital letter pi              |
| 1D72C | <b><i>Ρ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL RHO<br>≈ <font> 03A1 <b><i>Ρ</i></b> greek capital letter rho            |
| 1D72D | <b><i>Θ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL THETA SYMBOL<br>≈ <font> 03F4 <b><i>Θ</i></b> greek capital theta symbol |
| 1D72E | <b><i>Σ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL SIGMA<br>≈ <font> 03A3 <b><i>Σ</i></b> greek capital letter sigma        |
| 1D72F | <b><i>Τ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL TAU<br>≈ <font> 03A4 <b><i>Τ</i></b> greek capital letter tau            |

|       |                 |                                                                                                            |
|-------|-----------------|------------------------------------------------------------------------------------------------------------|
| 1D730 | <b><i>Υ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL UPSILON<br>≈ <font> 03A5 <b><i>Υ</i></b> greek capital letter upsilon     |
| 1D731 | <b><i>Φ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL PHI<br>≈ <font> 03A6 <b><i>Φ</i></b> greek capital letter phi             |
| 1D732 | <b><i>Χ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL CHI<br>≈ <font> 03A7 <b><i>Χ</i></b> greek capital letter chi             |
| 1D733 | <b><i>Ψ</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL PSI<br>≈ <font> 03A8 <b><i>Ψ</i></b> greek capital letter psi             |
| 1D734 | <b><i>Ω</i></b> | MATHEMATICAL BOLD ITALIC CAPITAL OMEGA<br>≈ <font> 03A9 <b><i>Ω</i></b> greek capital letter omega         |
| 1D735 | <b><i>∇</i></b> | MATHEMATICAL BOLD ITALIC NABLA<br>≈ <font> 2207 <b><i>∇</i></b> nabla                                      |
| 1D736 | <b><i>α</i></b> | MATHEMATICAL BOLD ITALIC SMALL ALPHA<br>≈ <font> 03B1 <b><i>α</i></b> greek small letter alpha             |
| 1D737 | <b><i>β</i></b> | MATHEMATICAL BOLD ITALIC SMALL BETA<br>≈ <font> 03B2 <b><i>β</i></b> greek small letter beta               |
| 1D738 | <b><i>γ</i></b> | MATHEMATICAL BOLD ITALIC SMALL GAMMA<br>≈ <font> 03B3 <b><i>γ</i></b> greek small letter gamma             |
| 1D739 | <b><i>δ</i></b> | MATHEMATICAL BOLD ITALIC SMALL DELTA<br>≈ <font> 03B4 <b><i>δ</i></b> greek small letter delta             |
| 1D73A | <b><i>ε</i></b> | MATHEMATICAL BOLD ITALIC SMALL EPSILON<br>≈ <font> 03B5 <b><i>ε</i></b> greek small letter epsilon         |
| 1D73B | <b><i>ζ</i></b> | MATHEMATICAL BOLD ITALIC SMALL ZETA<br>≈ <font> 03B6 <b><i>ζ</i></b> greek small letter zeta               |
| 1D73C | <b><i>η</i></b> | MATHEMATICAL BOLD ITALIC SMALL ETA<br>≈ <font> 03B7 <b><i>η</i></b> greek small letter eta                 |
| 1D73D | <b><i>θ</i></b> | MATHEMATICAL BOLD ITALIC SMALL THETA<br>≈ <font> 03B8 <b><i>θ</i></b> greek small letter theta             |
| 1D73E | <b><i>ι</i></b> | MATHEMATICAL BOLD ITALIC SMALL IOTA<br>≈ <font> 03B9 <b><i>ι</i></b> greek small letter iota               |
| 1D73F | <b><i>κ</i></b> | MATHEMATICAL BOLD ITALIC SMALL KAPPA<br>≈ <font> 03BA <b><i>κ</i></b> greek small letter kappa             |
| 1D740 | <b><i>λ</i></b> | MATHEMATICAL BOLD ITALIC SMALL LAMDA<br>≈ <font> 03BB <b><i>λ</i></b> greek small letter lamda             |
| 1D741 | <b><i>μ</i></b> | MATHEMATICAL BOLD ITALIC SMALL MU<br>≈ <font> 03BC <b><i>μ</i></b> greek small letter mu                   |
| 1D742 | <b><i>ν</i></b> | MATHEMATICAL BOLD ITALIC SMALL NU<br>≈ <font> 03BD <b><i>ν</i></b> greek small letter nu                   |
| 1D743 | <b><i>ξ</i></b> | MATHEMATICAL BOLD ITALIC SMALL XI<br>≈ <font> 03BE <b><i>ξ</i></b> greek small letter xi                   |
| 1D744 | <b><i>ο</i></b> | MATHEMATICAL BOLD ITALIC SMALL OMICRON<br>≈ <font> 03BF <b><i>ο</i></b> greek small letter omicron         |
| 1D745 | <b><i>π</i></b> | MATHEMATICAL BOLD ITALIC SMALL PI<br>≈ <font> 03C0 <b><i>π</i></b> greek small letter pi                   |
| 1D746 | <b><i>ρ</i></b> | MATHEMATICAL BOLD ITALIC SMALL RHO<br>≈ <font> 03C1 <b><i>ρ</i></b> greek small letter rho                 |
| 1D747 | <b><i>ς</i></b> | MATHEMATICAL BOLD ITALIC SMALL FINAL SIGMA<br>≈ <font> 03C2 <b><i>ς</i></b> greek small letter final sigma |
| 1D748 | <b><i>σ</i></b> | MATHEMATICAL BOLD ITALIC SMALL SIGMA<br>≈ <font> 03C3 <b><i>σ</i></b> greek small letter sigma             |
| 1D749 | <b><i>τ</i></b> | MATHEMATICAL BOLD ITALIC SMALL TAU<br>≈ <font> 03C4 <b><i>τ</i></b> greek small letter tau                 |
| 1D74A | <b><i>υ</i></b> | MATHEMATICAL BOLD ITALIC SMALL UPSILON<br>≈ <font> 03C5 <b><i>υ</i></b> greek small letter upsilon         |
| 1D74B | <b><i>φ</i></b> | MATHEMATICAL BOLD ITALIC SMALL PHI<br>≈ <font> 03C6 <b><i>φ</i></b> greek small letter phi                 |
| 1D74C | <b><i>χ</i></b> | MATHEMATICAL BOLD ITALIC SMALL CHI<br>≈ <font> 03C7 <b><i>χ</i></b> greek small letter chi                 |
| 1D74D | <b><i>ψ</i></b> | MATHEMATICAL BOLD ITALIC SMALL PSI<br>≈ <font> 03C8 <b><i>ψ</i></b> greek small letter psi                 |

1D74E **ω** MATHEMATICAL BOLD ITALIC SMALL OMEGA  
 ≈ <font> 03C9 ω greek small letter omega

**Additional bold italic Greek symbols**

1D74F **∂** MATHEMATICAL BOLD ITALIC PARTIAL DIFFERENTIAL  
 ≈ <font> 2202 ∂ partial differential

1D750 **ε** MATHEMATICAL BOLD ITALIC EPSILON SYMBOL  
 ≈ <font> 03F5 ε greek lunate epsilon symbol

1D751 **θ** MATHEMATICAL BOLD ITALIC THETA SYMBOL  
 ≈ <font> 03D1 θ greek theta symbol

1D752 **κ** MATHEMATICAL BOLD ITALIC KAPPA SYMBOL  
 ≈ <font> 03F0 κ greek kappa symbol

1D753 **φ** MATHEMATICAL BOLD ITALIC PHI SYMBOL  
 ≈ <font> 03D5 φ greek phi symbol

1D754 **ρ** MATHEMATICAL BOLD ITALIC RHO SYMBOL  
 ≈ <font> 03F1 ρ greek rho symbol

1D755 **π** MATHEMATICAL BOLD ITALIC PI SYMBOL  
 ≈ <font> 03D6 π greek pi symbol

**Sans-serif bold Greek symbols**

1D756 **Α** MATHEMATICAL SANS-SERIF BOLD CAPITAL ALPHA  
 ≈ <font> 0391 Α greek capital letter alpha

1D757 **Β** MATHEMATICAL SANS-SERIF BOLD CAPITAL BETA  
 ≈ <font> 0392 Β greek capital letter beta

1D758 **Γ** MATHEMATICAL SANS-SERIF BOLD CAPITAL GAMMA  
 ≈ <font> 0393 Γ greek capital letter gamma

1D759 **Δ** MATHEMATICAL SANS-SERIF BOLD CAPITAL DELTA  
 ≈ <font> 0394 Δ greek capital letter delta

1D75A **Ε** MATHEMATICAL SANS-SERIF BOLD CAPITAL EPSILON  
 ≈ <font> 0395 Ε greek capital letter epsilon

1D75B **Ζ** MATHEMATICAL SANS-SERIF BOLD CAPITAL ZETA  
 ≈ <font> 0396 Ζ greek capital letter zeta

1D75C **Η** MATHEMATICAL SANS-SERIF BOLD CAPITAL ETA  
 ≈ <font> 0397 Η greek capital letter eta

1D75D **Θ** MATHEMATICAL SANS-SERIF BOLD CAPITAL THETA  
 ≈ <font> 0398 Θ greek capital letter theta

1D75E **Ι** MATHEMATICAL SANS-SERIF BOLD CAPITAL IOTA  
 ≈ <font> 0399 Ι greek capital letter iota

1D75F **Κ** MATHEMATICAL SANS-SERIF BOLD CAPITAL KAPPA  
 ≈ <font> 039A Κ greek capital letter kappa

1D760 **Λ** MATHEMATICAL SANS-SERIF BOLD CAPITAL LAMDA  
 ≈ <font> 039B Λ greek capital letter lamda

1D761 **Μ** MATHEMATICAL SANS-SERIF BOLD CAPITAL MU  
 ≈ <font> 039C Μ greek capital letter mu

1D762 **Ν** MATHEMATICAL SANS-SERIF BOLD CAPITAL NU  
 ≈ <font> 039D Ν greek capital letter nu

1D763 **Ξ** MATHEMATICAL SANS-SERIF BOLD CAPITAL XI  
 ≈ <font> 039E Ξ greek capital letter xi

1D764 **Ο** MATHEMATICAL SANS-SERIF BOLD CAPITAL OMICRON  
 ≈ <font> 039F Ο greek capital letter omicron

1D765 **Π** MATHEMATICAL SANS-SERIF BOLD CAPITAL PI  
 ≈ <font> 03A0 Π greek capital letter pi

1D766 **Ρ** MATHEMATICAL SANS-SERIF BOLD CAPITAL RHO  
 ≈ <font> 03A1 Ρ greek capital letter rho

1D767 **Θ** MATHEMATICAL SANS-SERIF BOLD CAPITAL THETA SYMBOL  
 ≈ <font> 03F4 Θ greek capital theta symbol

1D768 **Σ** MATHEMATICAL SANS-SERIF BOLD CAPITAL SIGMA  
 ≈ <font> 03A3 Σ greek capital letter sigma

1D769 **Τ** MATHEMATICAL SANS-SERIF BOLD CAPITAL TAU  
 ≈ <font> 03A4 Τ greek capital letter tau

1D76A **Υ** MATHEMATICAL SANS-SERIF BOLD CAPITAL UPSILON  
 ≈ <font> 03A5 Υ greek capital letter upsilon

1D76B **Φ** MATHEMATICAL SANS-SERIF BOLD CAPITAL PHI  
 ≈ <font> 03A6 Φ greek capital letter phi

1D76C **Χ** MATHEMATICAL SANS-SERIF BOLD CAPITAL CHI  
 ≈ <font> 03A7 Χ greek capital letter chi

1D76D **Ψ** MATHEMATICAL SANS-SERIF BOLD CAPITAL PSI  
 ≈ <font> 03A8 Ψ greek capital letter psi

1D76E **Ω** MATHEMATICAL SANS-SERIF BOLD CAPITAL OMEGA  
 ≈ <font> 03A9 Ω greek capital letter omega

1D76F **∇** MATHEMATICAL SANS-SERIF BOLD NABLA  
 ≈ <font> 2207 ∇ nabra

1D770 **α** MATHEMATICAL SANS-SERIF BOLD SMALL ALPHA  
 ≈ <font> 03B1 α greek small letter alpha

1D771 **β** MATHEMATICAL SANS-SERIF BOLD SMALL BETA  
 ≈ <font> 03B2 β greek small letter beta

1D772 **γ** MATHEMATICAL SANS-SERIF BOLD SMALL GAMMA  
 ≈ <font> 03B3 γ greek small letter gamma

1D773 **δ** MATHEMATICAL SANS-SERIF BOLD SMALL DELTA  
 ≈ <font> 03B4 δ greek small letter delta

1D774 **ε** MATHEMATICAL SANS-SERIF BOLD SMALL EPSILON  
 ≈ <font> 03B5 ε greek small letter epsilon

1D775 **ζ** MATHEMATICAL SANS-SERIF BOLD SMALL ZETA  
 ≈ <font> 03B6 ζ greek small letter zeta

1D776 **η** MATHEMATICAL SANS-SERIF BOLD SMALL ETA  
 ≈ <font> 03B7 η greek small letter eta

1D777 **θ** MATHEMATICAL SANS-SERIF BOLD SMALL THETA  
 ≈ <font> 03B8 θ greek small letter theta

1D778 **ι** MATHEMATICAL SANS-SERIF BOLD SMALL IOTA  
 ≈ <font> 03B9 ι greek small letter iota

1D779 **κ** MATHEMATICAL SANS-SERIF BOLD SMALL KAPPA  
 ≈ <font> 03BA κ greek small letter kappa

|       |          |                                                                                                  |
|-------|----------|--------------------------------------------------------------------------------------------------|
| 1D77A | <b>λ</b> | MATHEMATICAL SANS-SERIF BOLD SMALL LAMDA<br>≈ <font> 03BB λ greek small letter lamda             |
| 1D77B | <b>μ</b> | MATHEMATICAL SANS-SERIF BOLD SMALL MU<br>≈ <font> 03BC μ greek small letter mu                   |
| 1D77C | <b>ν</b> | MATHEMATICAL SANS-SERIF BOLD SMALL NU<br>≈ <font> 03BD ν greek small letter nu                   |
| 1D77D | <b>ξ</b> | MATHEMATICAL SANS-SERIF BOLD SMALL XI<br>≈ <font> 03BE ξ greek small letter xi                   |
| 1D77E | <b>ο</b> | MATHEMATICAL SANS-SERIF BOLD SMALL OMICRON<br>≈ <font> 03BF ο greek small letter omicron         |
| 1D77F | <b>π</b> | MATHEMATICAL SANS-SERIF BOLD SMALL PI<br>≈ <font> 03C0 π greek small letter pi                   |
| 1D780 | <b>ρ</b> | MATHEMATICAL SANS-SERIF BOLD SMALL RHO<br>≈ <font> 03C1 ρ greek small letter rho                 |
| 1D781 | <b>ς</b> | MATHEMATICAL SANS-SERIF BOLD SMALL FINAL SIGMA<br>≈ <font> 03C2 ς greek small letter final sigma |
| 1D782 | <b>σ</b> | MATHEMATICAL SANS-SERIF BOLD SMALL SIGMA<br>≈ <font> 03C3 σ greek small letter sigma             |
| 1D783 | <b>τ</b> | MATHEMATICAL SANS-SERIF BOLD SMALL TAU<br>≈ <font> 03C4 τ greek small letter tau                 |
| 1D784 | <b>υ</b> | MATHEMATICAL SANS-SERIF BOLD SMALL UPSILON<br>≈ <font> 03C5 υ greek small letter upsilon         |
| 1D785 | <b>φ</b> | MATHEMATICAL SANS-SERIF BOLD SMALL PHI<br>≈ <font> 03C6 φ greek small letter phi                 |
| 1D786 | <b>χ</b> | MATHEMATICAL SANS-SERIF BOLD SMALL CHI<br>≈ <font> 03C7 χ greek small letter chi                 |
| 1D787 | <b>ψ</b> | MATHEMATICAL SANS-SERIF BOLD SMALL PSI<br>≈ <font> 03C8 ψ greek small letter psi                 |
| 1D788 | <b>ω</b> | MATHEMATICAL SANS-SERIF BOLD SMALL OMEGA<br>≈ <font> 03C9 ω greek small letter omega             |

**Additional sans-serif bold Greek symbols**

|       |          |                                                                                            |
|-------|----------|--------------------------------------------------------------------------------------------|
| 1D789 | <b>∂</b> | MATHEMATICAL SANS-SERIF BOLD PARTIAL DIFFERENTIAL<br>≈ <font> 2202 ∂ partial differential  |
| 1D78A | <b>ε</b> | MATHEMATICAL SANS-SERIF BOLD EPSILON SYMBOL<br>≈ <font> 03F5 ε greek lunate epsilon symbol |
| 1D78B | <b>θ</b> | MATHEMATICAL SANS-SERIF BOLD THETA SYMBOL<br>≈ <font> 03D1 θ greek theta symbol            |
| 1D78C | <b>κ</b> | MATHEMATICAL SANS-SERIF BOLD KAPPA SYMBOL<br>≈ <font> 03F0 κ greek kappa symbol            |
| 1D78D | <b>φ</b> | MATHEMATICAL SANS-SERIF BOLD PHI SYMBOL<br>≈ <font> 03D5 φ greek phi symbol                |
| 1D78E | <b>ρ</b> | MATHEMATICAL SANS-SERIF BOLD RHO SYMBOL<br>≈ <font> 03F1 ρ greek rho symbol                |
| 1D78F | <b>π</b> | MATHEMATICAL SANS-SERIF BOLD PI SYMBOL<br>≈ <font> 03D6 π greek pi symbol                  |

**Sans-serif bold italic Greek symbols**

|       |          |                                                                                                 |
|-------|----------|-------------------------------------------------------------------------------------------------|
| 1D790 | <b>Α</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL ALPHA<br>≈ <font> 0391 Α greek capital letter alpha |
|-------|----------|-------------------------------------------------------------------------------------------------|

|       |          |                                                                                                        |
|-------|----------|--------------------------------------------------------------------------------------------------------|
| 1D791 | <b>Β</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL BETA<br>≈ <font> 0392 Β greek capital letter beta          |
| 1D792 | <b>Γ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL GAMMA<br>≈ <font> 0393 Γ greek capital letter gamma        |
| 1D793 | <b>Δ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL DELTA<br>≈ <font> 0394 Δ greek capital letter delta        |
| 1D794 | <b>Ε</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL EPSILON<br>≈ <font> 0395 Ε greek capital letter epsilon    |
| 1D795 | <b>Ζ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL ZETA<br>≈ <font> 0396 Ζ greek capital letter zeta          |
| 1D796 | <b>Η</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL ETA<br>≈ <font> 0397 Η greek capital letter eta            |
| 1D797 | <b>Θ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL THETA<br>≈ <font> 0398 Θ greek capital letter theta        |
| 1D798 | <b>Ι</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL IOTA<br>≈ <font> 0399 Ι greek capital letter iota          |
| 1D799 | <b>Κ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL KAPPA<br>≈ <font> 039A Κ greek capital letter kappa        |
| 1D79A | <b>Λ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL LAMDA<br>≈ <font> 039B Λ greek capital letter lamda        |
| 1D79B | <b>Μ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL MU<br>≈ <font> 039C Μ greek capital letter mu              |
| 1D79C | <b>Ν</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL NU<br>≈ <font> 039D Ν greek capital letter nu              |
| 1D79D | <b>Ξ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL XI<br>≈ <font> 039E Ξ greek capital letter xi              |
| 1D79E | <b>Ο</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL OMICRON<br>≈ <font> 039F Ο greek capital letter omicron    |
| 1D79F | <b>Π</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL PI<br>≈ <font> 03A0 Π greek capital letter pi              |
| 1D7A0 | <b>Ρ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL RHO<br>≈ <font> 03A1 Ρ greek capital letter rho            |
| 1D7A1 | <b>Θ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL THETA SYMBOL<br>≈ <font> 03F4 Θ greek capital theta symbol |
| 1D7A2 | <b>Σ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL SIGMA<br>≈ <font> 03A3 Σ greek capital letter sigma        |
| 1D7A3 | <b>Τ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL TAU<br>≈ <font> 03A4 Τ greek capital letter tau            |
| 1D7A4 | <b>Υ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL UPSILON<br>≈ <font> 03A5 Υ greek capital letter upsilon    |
| 1D7A5 | <b>Φ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL PHI<br>≈ <font> 03A6 Φ greek capital letter phi            |

|       |          |                                                                                                        |
|-------|----------|--------------------------------------------------------------------------------------------------------|
| 1D7A6 | <b>X</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL CHI<br>≈ <font> 03A7 <b>X</b> greek capital letter chi     |
| 1D7A7 | <b>Ψ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL PSI<br>≈ <font> 03A8 <b>Ψ</b> greek capital letter psi     |
| 1D7A8 | <b>Ω</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC CAPITAL OMEGA<br>≈ <font> 03A9 <b>Ω</b> greek capital letter omega |
| 1D7A9 | <b>∇</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC NABLA<br>≈ <font> 2207 <b>∇</b> nabla                              |
| 1D7AA | <b>α</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL ALPHA<br>≈ <font> 03B1 <b>α</b> greek small letter alpha     |
| 1D7AB | <b>β</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL BETA<br>≈ <font> 03B2 <b>β</b> greek small letter beta       |
| 1D7AC | <b>γ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL GAMMA<br>≈ <font> 03B3 <b>γ</b> greek small letter gamma     |
| 1D7AD | <b>δ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL DELTA<br>≈ <font> 03B4 <b>δ</b> greek small letter delta     |
| 1D7AE | <b>ε</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL EPSILON<br>≈ <font> 03B5 <b>ε</b> greek small letter epsilon |
| 1D7AF | <b>ζ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL ZETA<br>≈ <font> 03B6 <b>ζ</b> greek small letter zeta       |
| 1D7B0 | <b>η</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL ETA<br>≈ <font> 03B7 <b>η</b> greek small letter eta         |
| 1D7B1 | <b>θ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL THETA<br>≈ <font> 03B8 <b>θ</b> greek small letter theta     |
| 1D7B2 | <b>ι</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL IOTA<br>≈ <font> 03B9 <b>ι</b> greek small letter iota       |
| 1D7B3 | <b>κ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL KAPPA<br>≈ <font> 03BA <b>κ</b> greek small letter kappa     |
| 1D7B4 | <b>λ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL LAMDA<br>≈ <font> 03BB <b>λ</b> greek small letter lamda     |
| 1D7B5 | <b>μ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL MU<br>≈ <font> 03BC <b>μ</b> greek small letter mu           |
| 1D7B6 | <b>ν</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL NU<br>≈ <font> 03BD <b>ν</b> greek small letter nu           |
| 1D7B7 | <b>ξ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL XI<br>≈ <font> 03BE <b>ξ</b> greek small letter xi           |
| 1D7B8 | <b>ο</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL OMICRON<br>≈ <font> 03BF <b>ο</b> greek small letter omicron |
| 1D7B9 | <b>π</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL PI<br>≈ <font> 03C0 <b>π</b> greek small letter pi           |
| 1D7BA | <b>ρ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL RHO<br>≈ <font> 03C1 <b>ρ</b> greek small letter rho         |

|       |          |                                                                                                                |
|-------|----------|----------------------------------------------------------------------------------------------------------------|
| 1D7BB | <b>ς</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL FINAL SIGMA<br>≈ <font> 03C2 <b>ς</b> greek small letter final sigma |
| 1D7BC | <b>σ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL SIGMA<br>≈ <font> 03C3 <b>σ</b> greek small letter sigma             |
| 1D7BD | <b>τ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL TAU<br>≈ <font> 03C4 <b>τ</b> greek small letter tau                 |
| 1D7BE | <b>υ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL UPSILON<br>≈ <font> 03C5 <b>υ</b> greek small letter upsilon         |
| 1D7BF | <b>φ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL PHI<br>≈ <font> 03C6 <b>φ</b> greek small letter phi                 |
| 1D7C0 | <b>χ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL CHI<br>≈ <font> 03C7 <b>χ</b> greek small letter chi                 |
| 1D7C1 | <b>ψ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL PSI<br>≈ <font> 03C8 <b>ψ</b> greek small letter psi                 |
| 1D7C2 | <b>ω</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC SMALL OMEGA<br>≈ <font> 03C9 <b>ω</b> greek small letter omega             |

**Additional sans-serif bold italic Greek symbols**

|       |          |                                                                                                          |
|-------|----------|----------------------------------------------------------------------------------------------------------|
| 1D7C3 | <b>∂</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC PARTIAL DIFFERENTIAL<br>≈ <font> 2202 <b>∂</b> partial differential  |
| 1D7C4 | <b>ε</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC EPSILON SYMBOL<br>≈ <font> 03F5 <b>ε</b> greek lunate epsilon symbol |
| 1D7C5 | <b>θ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC THETA SYMBOL<br>≈ <font> 03D1 <b>θ</b> greek theta symbol            |
| 1D7C6 | <b>κ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC KAPPA SYMBOL<br>≈ <font> 03F0 <b>κ</b> greek kappa symbol            |
| 1D7C7 | <b>φ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC PHI SYMBOL<br>≈ <font> 03D5 <b>φ</b> greek phi symbol                |
| 1D7C8 | <b>ρ</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC RHO SYMBOL<br>≈ <font> 03F1 <b>ρ</b> greek rho symbol                |
| 1D7C9 | <b>π</b> | MATHEMATICAL SANS-SERIF BOLD ITALIC PI SYMBOL<br>≈ <font> 03D6 <b>π</b> greek pi symbol                  |

**Additional bold Greek symbols**

|       |          |                                                                                      |
|-------|----------|--------------------------------------------------------------------------------------|
| 1D7CA | <b>Γ</b> | MATHEMATICAL BOLD CAPITAL DIGAMMA<br>≈ <font> 03DC <b>Γ</b> greek letter digamma     |
| 1D7CB | <b>Ϝ</b> | MATHEMATICAL BOLD SMALL DIGAMMA<br>≈ <font> 03DD <b>Ϝ</b> greek small letter digamma |

**Bold digits**

|       |          |                                                                     |
|-------|----------|---------------------------------------------------------------------|
| 1D7CE | <b>0</b> | MATHEMATICAL BOLD DIGIT ZERO<br>≈ <font> 0030 <b>0</b> digit zero   |
| 1D7CF | <b>1</b> | MATHEMATICAL BOLD DIGIT ONE<br>≈ <font> 0031 <b>1</b> digit one     |
| 1D7D0 | <b>2</b> | MATHEMATICAL BOLD DIGIT TWO<br>≈ <font> 0032 <b>2</b> digit two     |
| 1D7D1 | <b>3</b> | MATHEMATICAL BOLD DIGIT THREE<br>≈ <font> 0033 <b>3</b> digit three |
| 1D7D2 | <b>4</b> | MATHEMATICAL BOLD DIGIT FOUR<br>≈ <font> 0034 <b>4</b> digit four   |

1D7D3 5 MATHEMATICAL BOLD DIGIT FIVE  
 ≈ <font> 0035 5 digit five  
 1D7D4 6 MATHEMATICAL BOLD DIGIT SIX  
 ≈ <font> 0036 6 digit six  
 1D7D5 7 MATHEMATICAL BOLD DIGIT SEVEN  
 ≈ <font> 0037 7 digit seven  
 1D7D6 8 MATHEMATICAL BOLD DIGIT EIGHT  
 ≈ <font> 0038 8 digit eight  
 1D7D7 9 MATHEMATICAL BOLD DIGIT NINE  
 ≈ <font> 0039 9 digit nine

**Double-struck digits**

1D7D8 0 MATHEMATICAL DOUBLE-STRUCK DIGIT ZERO  
 ≈ <font> 0030 0 digit zero  
 1D7D9 1 MATHEMATICAL DOUBLE-STRUCK DIGIT ONE  
 ≈ <font> 0031 1 digit one  
 1D7DA 2 MATHEMATICAL DOUBLE-STRUCK DIGIT TWO  
 ≈ <font> 0032 2 digit two  
 1D7DB 3 MATHEMATICAL DOUBLE-STRUCK DIGIT THREE  
 ≈ <font> 0033 3 digit three  
 1D7DC 4 MATHEMATICAL DOUBLE-STRUCK DIGIT FOUR  
 ≈ <font> 0034 4 digit four  
 1D7DD 5 MATHEMATICAL DOUBLE-STRUCK DIGIT FIVE  
 ≈ <font> 0035 5 digit five  
 1D7DE 6 MATHEMATICAL DOUBLE-STRUCK DIGIT SIX  
 ≈ <font> 0036 6 digit six  
 1D7DF 7 MATHEMATICAL DOUBLE-STRUCK DIGIT SEVEN  
 ≈ <font> 0037 7 digit seven  
 1D7E0 8 MATHEMATICAL DOUBLE-STRUCK DIGIT EIGHT  
 ≈ <font> 0038 8 digit eight  
 1D7E1 9 MATHEMATICAL DOUBLE-STRUCK DIGIT NINE  
 ≈ <font> 0039 9 digit nine

**Sans-serif digits**

1D7E2 0 MATHEMATICAL SANS-SERIF DIGIT ZERO  
 ≈ <font> 0030 0 digit zero  
 1D7E3 1 MATHEMATICAL SANS-SERIF DIGIT ONE  
 ≈ <font> 0031 1 digit one  
 1D7E4 2 MATHEMATICAL SANS-SERIF DIGIT TWO  
 ≈ <font> 0032 2 digit two  
 1D7E5 3 MATHEMATICAL SANS-SERIF DIGIT THREE  
 ≈ <font> 0033 3 digit three  
 1D7E6 4 MATHEMATICAL SANS-SERIF DIGIT FOUR  
 ≈ <font> 0034 4 digit four  
 1D7E7 5 MATHEMATICAL SANS-SERIF DIGIT FIVE  
 ≈ <font> 0035 5 digit five  
 1D7E8 6 MATHEMATICAL SANS-SERIF DIGIT SIX  
 ≈ <font> 0036 6 digit six  
 1D7E9 7 MATHEMATICAL SANS-SERIF DIGIT SEVEN  
 ≈ <font> 0037 7 digit seven  
 1D7EA 8 MATHEMATICAL SANS-SERIF DIGIT EIGHT  
 ≈ <font> 0038 8 digit eight  
 1D7EB 9 MATHEMATICAL SANS-SERIF DIGIT NINE  
 ≈ <font> 0039 9 digit nine

**Sans-serif bold digits**

1D7EC 0 MATHEMATICAL SANS-SERIF BOLD DIGIT ZERO  
 ≈ <font> 0030 0 digit zero  
 1D7ED 1 MATHEMATICAL SANS-SERIF BOLD DIGIT ONE  
 ≈ <font> 0031 1 digit one  
 1D7EE 2 MATHEMATICAL SANS-SERIF BOLD DIGIT TWO  
 ≈ <font> 0032 2 digit two

1D7EF 3 MATHEMATICAL SANS-SERIF BOLD DIGIT THREE  
 ≈ <font> 0033 3 digit three  
 1D7F0 4 MATHEMATICAL SANS-SERIF BOLD DIGIT FOUR  
 ≈ <font> 0034 4 digit four  
 1D7F1 5 MATHEMATICAL SANS-SERIF BOLD DIGIT FIVE  
 ≈ <font> 0035 5 digit five  
 1D7F2 6 MATHEMATICAL SANS-SERIF BOLD DIGIT SIX  
 ≈ <font> 0036 6 digit six  
 1D7F3 7 MATHEMATICAL SANS-SERIF BOLD DIGIT SEVEN  
 ≈ <font> 0037 7 digit seven  
 1D7F4 8 MATHEMATICAL SANS-SERIF BOLD DIGIT EIGHT  
 ≈ <font> 0038 8 digit eight  
 1D7F5 9 MATHEMATICAL SANS-SERIF BOLD DIGIT NINE  
 ≈ <font> 0039 9 digit nine

**Monospace digits**

1D7F6 0 MATHEMATICAL MONOSPACE DIGIT ZERO  
 ≈ <font> 0030 0 digit zero  
 1D7F7 1 MATHEMATICAL MONOSPACE DIGIT ONE  
 ≈ <font> 0031 1 digit one  
 1D7F8 2 MATHEMATICAL MONOSPACE DIGIT TWO  
 ≈ <font> 0032 2 digit two  
 1D7F9 3 MATHEMATICAL MONOSPACE DIGIT THREE  
 ≈ <font> 0033 3 digit three  
 1D7FA 4 MATHEMATICAL MONOSPACE DIGIT FOUR  
 ≈ <font> 0034 4 digit four  
 1D7FB 5 MATHEMATICAL MONOSPACE DIGIT FIVE  
 ≈ <font> 0035 5 digit five  
 1D7FC 6 MATHEMATICAL MONOSPACE DIGIT SIX  
 ≈ <font> 0036 6 digit six  
 1D7FD 7 MATHEMATICAL MONOSPACE DIGIT SEVEN  
 ≈ <font> 0037 7 digit seven  
 1D7FE 8 MATHEMATICAL MONOSPACE DIGIT EIGHT  
 ≈ <font> 0038 8 digit eight  
 1D7FF 9 MATHEMATICAL MONOSPACE DIGIT NINE  
 ≈ <font> 0039 9 digit nine



| Standardized Variation Sequences |                                                                                                                                                                                                |
|----------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 1D49C                            | $\mathcal{A}$ MATHEMATICAL SCRIPT CAPITAL A<br><small>1D49C</small><br>$\mathcal{A}$ chancery style<br><small>1D49C FE00</small><br>$\mathcal{A}$ roundhand style<br><small>1D49C FE01</small> |
| 1D49E                            | $\mathcal{C}$ MATHEMATICAL SCRIPT CAPITAL C<br><small>1D49E</small><br>$\mathcal{C}$ chancery style<br><small>1D49E FE00</small><br>$\mathcal{C}$ roundhand style<br><small>1D49E FE01</small> |
| 1D49F                            | $\mathcal{D}$ MATHEMATICAL SCRIPT CAPITAL D<br><small>1D49F</small><br>$\mathcal{D}$ chancery style<br><small>1D49F FE00</small><br>$\mathcal{D}$ roundhand style<br><small>1D49F FE01</small> |
| 1D4A2                            | $\mathcal{G}$ MATHEMATICAL SCRIPT CAPITAL G<br><small>1D4A2</small><br>$\mathcal{G}$ chancery style<br><small>1D4A2 FE00</small><br>$\mathcal{G}$ roundhand style<br><small>1D4A2 FE01</small> |
| 1D4A5                            | $\mathcal{J}$ MATHEMATICAL SCRIPT CAPITAL J<br><small>1D4A5</small><br>$\mathcal{J}$ chancery style<br><small>1D4A5 FE00</small><br>$\mathcal{J}$ roundhand style<br><small>1D4A5 FE01</small> |
| 1D4A6                            | $\mathcal{K}$ MATHEMATICAL SCRIPT CAPITAL K<br><small>1D4A6</small><br>$\mathcal{K}$ chancery style<br><small>1D4A6 FE00</small><br>$\mathcal{K}$ roundhand style<br><small>1D4A6 FE01</small> |
| 1D4A9                            | $\mathcal{N}$ MATHEMATICAL SCRIPT CAPITAL N<br><small>1D4A9</small><br>$\mathcal{N}$ chancery style<br><small>1D4A9 FE00</small><br>$\mathcal{N}$ roundhand style<br><small>1D4A9 FE01</small> |
| 1D4AA                            | $\mathcal{O}$ MATHEMATICAL SCRIPT CAPITAL O<br><small>1D4AA</small><br>$\mathcal{O}$ chancery style<br><small>1D4AA FE00</small><br>$\mathcal{O}$ roundhand style<br><small>1D4AA FE01</small> |
| 1D4AB                            | $\mathcal{P}$ MATHEMATICAL SCRIPT CAPITAL P<br><small>1D4AB</small><br>$\mathcal{P}$ chancery style<br><small>1D4AB FE00</small><br>$\mathcal{P}$ roundhand style<br><small>1D4AB FE01</small> |
| 1D4AC                            | $\mathcal{Q}$ MATHEMATICAL SCRIPT CAPITAL Q<br><small>1D4AC</small><br>$\mathcal{Q}$ chancery style<br><small>1D4AC FE00</small><br>$\mathcal{Q}$ roundhand style<br><small>1D4AC FE01</small> |
| 1D4AE                            | $\mathcal{S}$ MATHEMATICAL SCRIPT CAPITAL S<br><small>1D4AE</small><br>$\mathcal{S}$ chancery style<br><small>1D4AE FE00</small><br>$\mathcal{S}$ roundhand style<br><small>1D4AE FE01</small> |
| 1D4AF                            | $\mathcal{T}$ MATHEMATICAL SCRIPT CAPITAL T<br><small>1D4AF</small><br>$\mathcal{T}$ chancery style<br><small>1D4AF FE00</small><br>$\mathcal{T}$ roundhand style<br><small>1D4AF FE01</small> |

|                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |                                                                                                                                         |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------|
| <div>1D4B0</div> <div><div><div>U</div><div>1D4B0</div><div>chancery style</div></div><div><div>U</div><div>1D4B0 FE00</div><div>roundhand style</div></div></div> <div>1D4B1</div> <div><div><div>V</div><div>1D4B1</div><div>chancery style</div></div><div><div>V</div><div>1D4B1 FE00</div><div>roundhand style</div></div></div> <div>1D4B2</div> <div><div><div>W</div><div>1D4B2</div><div>chancery style</div></div><div><div>W</div><div>1D4B2 FE00</div><div>roundhand style</div></div></div> <div>1D4B3</div> <div><div><div>X</div><div>1D4B3</div><div>chancery style</div></div><div><div>X</div><div>1D4B3 FE00</div><div>roundhand style</div></div></div> <div>1D4B4</div> <div><div><div>Y</div><div>1D4B4</div><div>chancery style</div></div><div><div>Y</div><div>1D4B4 FE00</div><div>roundhand style</div></div></div> <div>1D4B5</div> <div><div><div>Z</div><div>1D4B5</div><div>chancery style</div></div><div><div>Z</div><div>1D4B5 FE00</div><div>roundhand style</div></div></div> | <div>1D4CF</div> <div><div><div>z</div><div>1D4CF</div><div>current style</div></div><div><div>z</div><div>1D4CF FE02</div></div></div> |
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