Math symbols and meanings pdf

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"⊞" redirects here. For the key, see Windows key. Blackboard at the Laurent Schwartz Center for Mathematics, École Polytechnique This article contains special characters. Without proper rendering support, you may see question marks, boxes, or other symbols. The Unicode Standard encodes almost all standard characters used in mathematics.[1] Unicode Technical Report #25 provides comprehensive information about the character repertoire, their properties, and guidelines for implementation.[1] Mathematical operators and symbols are in multiple Unicode blocks. Some of these blocks are dedicated to, or primarily contain, mathematical characters while others are a mix of mathematical and non-mathematical characters. This article covers all Unicode characters with a derived property of "Math".[2][3] Dedicated blocks Mathematical Operators block Main article: Mathematical Operators (Unicode block) The Mathematical Operators block (U+2200–U+22FF) contains characters for mathematical, logical, and set notation. Mathematical Operators[1]Official Unicode Consortium code chart (PDF) 0 1 2 3 4 5 6 7 8 9 A B C D E F U+220x ∀ ∁ ∂ ∃ ∄ ∅ ∆ ∇ ∈ ∉ ∊ ∋ ∌ ∍ ∎ ∏ ∐ U+221x ∑ ∓ ∔ ∕ ∖ ∗ ∘ ∙ √ ∛ ∜ ∝ ∞ ∟ U+222x ∠ ∡ ∢ ∣ ∤ ∥ ∦ ∧ ∨ ∩ ∪ ∫ ∬ ∭ ∮ ∯ U+223x ∰ ∱ ∲ ∴ ∵ ∶ ∷ ∸ ∹ ∺ ∻ ∼ ∽ ∾ ∿ U+224x ≀ ≁ ≂ ≃ ≄ ≅ ≆ ≇ ≈ ≉ ≊ ≋ ≌ ≍ ≎ ≏ U+225x ≐ ≑ ≒ ≓ ≔ ≕ ≖ ≗ ≘ ≙ ≚ ≛ ≜ ≝ ≞ ≟ U+226x ≠ ≡ ≢ ≣ ≤ ≥ ≦ ≧ ≨ ≩ ≪ ≫ ≬ ≭ ≮ ≯ U+227x ≰ ≱ ≲ ≳ ≴ ≵ ≶ ≷ ≸ ≹ ≺ ≻ ≼ ≽ ≾ ≿ U+228x ⊀ ⊁ ⊂ ⊃ ⊄ ⊅ ⊆ ⊇ ⊈ ⊉ ⊊ ⊋ ⊌ ⊍ ⊎ ⊏ U+229x ⊐ ⊑ ⊒ ⊓ ⊔ ⊕ ⊖ ⊗ ⊘ ⊙ ⊚ ⊛ ⊜ ⊝ ⊞ ⊟ U+22Ax ⊠ ⊡ ⊢ ⊣ ⊤ ⊥ ⊦ ⊧ ⊨ ⊩ ⊪ ⊫ ⊬ ⊭ ⊮ ⊯ U+22Bx ⊰ ⊱ ⊲ ⊳ ⊴ ⊵ ⊶ ⊷ ⊸ ⊹ ⊺ ⊻ ⊼ ⊽ ⊾ ⊿ U+22Cx ⋀ ⋁ ⋂ ⋃ ⋄ ⋅ ⋆ ⋇ ⋈ ⋉ ⋊ ⋋ ⋌ ⋍ ⋎ ⋏ U+22Dx ⋐ ⋑ ⋒ ⋓ ⋔ ⋕ ⋖ ⋗ ⋘ ⋙ ⋚ ⋛ ⋜ ⋝ ⋞ ⋟ ⋠ ⋡ ⋢ ⋣ ⋤ ⋥ ⋦ ⋧ ⋨ ⋩ ⋪ ⋫ ⋬ ⋭ ⋮ ⋯ U+22Fx ⋰ ⋱ ⋲ ⋳ ⋴ ⋵ ⋶ ⋷ ⋸ ⋹ ⋺ ⋻ ⋼ ⋽ ⋾ ⋿ Notes 1.^ As of Unicode version 14.0 Supplemental Mathematical Operators block Main article: Supplemental Mathematical Operators (Unicode block) The Supplemental Mathematical Operators block (U+2A00–U+2AFF) contains various mathematical symbols, including N-ary operators, summations and integrals, intersections and unions, logical and relational operators, and subset/superset relations. Supplemental Mathematical Operators[1]Official Unicode Consortium code chart (PDF) 0 1 2 3 4 5 6 7 8 9 A B C D E F U+2A0x ⨀ ⨁ ⨂ ⨃ ⨄ ⨅ ⨆ ⨇ ⨈ ⨉ ⨊ ⨋ ⨌ ⨍ ⨎ ⨏ U+2A1x ⨐ ⨑ ⨒ ⨓ ⨔ ⨕ ⨖ ⨗ ⨘ ⨙ ⨚ ⨛ ⨜ ⨝ ⨞ ⨟ U+2A2x ⨠ ⨡ ⨢ ⨣ ⨤ ⨥ ⨦ ⨧ ⨨ ⨩ ⨪ ⨫ ⨬ ⨭ ⨮ ⨯ U+2A3x ⨰ ⨱ ⨲ ⨳ ⨴ ⨵ ⨶ ⨷ ⨸ ⨹ ⨺ ⨻ ⨼ ⨽ ⨾ ⨿ U+2A4x ⩀ ⩁ ⩂ ⩃ ⩄ ⩅ ⩆ ⩇ ⩈ ⩉ ⩊ ⩋ ⩌ ⩍ ⩎ ⩏ U+2A5x ⩐ ⩑ ⩒ ⩓ ⩔ ⩕ ⩖ ⩗ ⩘ ⩙ ⩚ ⩛ ⩜ ⩝ ⩞ ⩟ U+2A6x ⩠ ⩡ ⩢ ⩣ ⩤ ⩥ ⩦ ⩧ ⩨ ⩩ ⩪ ⩫ ⩬ ⩭ ⩮ ⩯ U+2A7x ⩰ ⩱ ⩲ ⩳ ⩴ ⩵ ⩶ ⩷ ⩸ ⩹ ⩺ ⩻ ⩼ ⩽ ⩾ ⩿ U+2A8x ⪀ ⪁ ⪂ ⪃ ⪄ ⪅ ⪆ ⪇ ⪈ ⪉ ⪊ ⪋ ⪌ ⪍ ⪎ ⪏ U+2A9x ⪐ ⪑ ⪒ ⪓ ⪔ ⪕ ⪖ ⪗ ⪘ ⪙ ⪚ ⪛ ⪜ ⪝ ⪞ ⪟ U+2AAx ⪠ ⪡ ⪢ ⪣ ⪤ ⪥ ⪦ ⪧ ⪨ ⪩ ⪪ ⪫ ⪬ ⪭ ⪮ ⪯ U+2ABx ⪰ ⪱ ⪲ ⪳ ⪴ ⪵ ⪶ ⪷ ⪸ ⪹ ⪺ ⪻ ⪼ ⪽ ⪾ ⪿ U+2ACx ⫀ ⫁ ⫂ ⫃ ⫄ ⫅ ⫆ ⫇ ⫈ ⫉ ⫊ ⫋ ⫌ ⫍ ⫎ ⫏ U+2ADx ⫐ ⫑ ⫒ ⫓ ⫔ ⫕ ⫖ ⫗ ⫘ ⫙ ⫚ ⫛ ⫝̸ ⫝ ⫞ ⫟ U+2AEx ⫠ ⫡ ⫢ ⫣ ⫤ ⫥ ⫦ ⫧ ⫨ ⫩ ⫪ ⫫ ⫬ ⫭ ⫮ ⫯ U+2AFx ⫰ ⫱ ⫲ ⫳ ⫴ ⫵ ⫶ ⫷ ⫸ ⫹ ⫺ ⫻ ⫼ ⫽ ⫾ ⫿ Notes 1.^ As of Unicode version 14.0 Mathematical Alphanumeric Symbols block Main article: Mathematical Alphanumeric Symbols (Unicode block) The Mathematical Alphanumeric Symbols block (U+1D400–U+1D7FF) contains Latin and Greek letters and decimal digits that enable mathematicians to denote different notions with different letter styles. The reserved code points (the "holes") in the alphabetic ranges up to U+1D551 duplicate characters in the Letterlike Symbols block.[4] Mathematical Alphanumeric Symbols[1][2]Official Unicode Consortium code chart (PDF) 0 1 2 3 4 5 6 7 8 9 A B C D E F U+1D40x 𝐀 𝐁 𝐂 𝐃 𝐄 𝐅 𝐆 𝐇 𝐈 𝐉 𝐊 𝐋 𝐌 𝐍 𝐎 𝐏 𝐐 𝐑 𝐒 𝐓 𝐔 𝐕 𝐖 𝐗 𝐘 𝐙 𝐚 𝐛 U+1D41x 𝐜 𝐝 𝐞 𝐟 𝐠 𝐡 𝐢 𝐣 𝐤 𝐥 𝐦 𝐧 𝐨 𝐩 𝐪 𝐫 U+1D42x 𝐬 𝐭 𝐮 𝐯 𝐰 𝐱 𝐲 𝐳 𝐴 𝐵 𝐶 𝐷 𝐸 𝐹 U+1D43x 𝐺 𝐻 𝐼 𝐽 𝐾 𝐿 𝑀 𝑁 𝑂 𝑃 𝑄 𝑅 𝑆 𝑇 𝑈 𝑉 𝑊 𝑋 𝑌 𝑍 𝑎 𝑏 U+1D44x 𝑐 𝑑 𝑒 𝑓 𝑔 ℎ 𝑖 𝑗 𝑘 𝑙 𝑚 𝑛 𝑜 𝑝 𝑞 𝑟 U+1D45x 𝑠 𝑡 𝑢 𝑣 𝑤 𝑥 𝑦 𝑧 U+1D47x 𝒜 𝒝 𝒞 𝒟 𝒠 𝒡 𝒢 𝒥 𝒦 𝒧 𝒨 𝒩 𝒪 𝒫 𝒬 𝒮 𝒯 𝒰 𝒱 𝒲 𝒳 𝒴 𝒵 U+1D48x 𝒶 𝒷 𝒸 𝒹 𝒻 𝒽 𝒾 𝒿 𝓀 𝓁 𝓂 𝓃 𝓅 𝓆 𝓇 𝓈 𝓉 𝓊 𝓋 𝓌 𝓍 𝓎 𝓏 U+1D49x 𝓐 𝓑 𝓒 𝓓 𝓔 𝓕 𝓖 𝓗 𝓘 𝓙 𝓚 𝓛 𝓜 𝓝 𝓞 𝓟 𝓠 𝓡 𝓢 𝓣 𝓤 𝓥 𝓦 𝓧 𝓨 𝓩 𝓪 𝓫 U+1D4Ax 𝓬 𝓭 𝓮 𝓯 𝓰 𝓱 𝓲 𝓳 𝓴 𝓵 𝓶 𝓷 𝓸 𝓹 𝓺 𝓻 𝓼 𝓽 𝓾 𝓿 𝔀 𝔁 𝔂 𝔃 U+1D4Bx 𝔄 𝔅 ℭ 𝔇 𝔈 𝔉 𝔊 ℌ ℑ 𝔍 𝔎 𝔏 𝔐 𝔑 𝔒 𝔓 𝔔 ℜ 𝔖 𝔗 𝔘 𝔙 𝔚 𝔛 𝔜 ℨ U+1D4Cx 𝔞 𝔟 𝔠 𝔡 𝔢 𝔣 𝔤 𝔥 𝔦 𝔧 𝔨 𝔩 𝔪 𝔫 𝔬 𝔭 𝔮 𝔯 U+1D4Dx 𝔰 𝔱 𝔲 𝔳 𝔴 𝔵 𝔶 𝔷 𝔸 𝔹 ℂ 𝔻 𝔼 𝔽 𝔾 ℍ 𝕀 𝕁 𝕂 𝕃 𝕄 U+1D4Ex ℕ 𝕆 ℙ ℚ ℝ 𝕊 𝕋 𝕌 𝕍 𝕎 𝕏 𝕐 ℤ 𝕒 𝕓 𝕔 𝕕 𝕖 𝕗 𝕘 𝕙 𝕚 𝕛 𝕜 𝕝 𝕞 U+1D4Fx 𝕟 𝕠 𝕡 𝕢 𝕣 𝕤 𝕥 𝕦 𝕧 𝕨 𝕩 𝕪 𝕫 𝔸 𝔹 ℂ 𝔻 𝔼 𝔽 𝔾 ℍ 𝕀 𝕁 𝕂 𝕃 𝕄 U+1D50x ℕ 𝕆 ℙ ℚ ℝ 𝕊 𝕋 𝕌 𝕍 𝕎 𝕏 𝕐 ℤ 𝕒 𝕓 𝕔 𝕕 𝕖 𝕗 𝕘 𝕙 𝕚 𝕛 𝕜 𝕝 𝕞 U+1D51x 𝕟 𝕠 𝕡 𝕢 𝕣 𝕤 𝕥 𝕦 𝕧 𝕨 𝕩 𝕪 𝕫 𝟘 𝟙 𝟚 𝟛 𝟜 𝟝 𝟞 𝟟 U+1D52x 𝟠 𝟡 𝐀 𝐁 𝐂 𝐃 𝐄 𝐅 𝐆 𝐇 𝐈 𝐉 𝐊 𝐋 𝐌 𝐍 𝐎 𝐏 𝐐 𝐑 𝐒 𝐓 𝐔 𝐕 𝐖 𝐗 𝐘 𝐙 𝐚 𝐛 U+1D53x 𝐜 𝐝 𝐞 𝐟 𝐠 𝐡 𝐢 𝐣 𝐤 𝐥 𝐦 𝐧 𝐨 𝐩 𝐪 𝐫 𝐬 𝐭 𝐮 𝐯 𝐰 𝐱 𝐲 𝐳 𝐀 𝐁 𝐂 𝐃 𝐄 𝐅 𝐆 𝐇 𝐈 𝐉 𝐊 𝐋 𝐌 𝐍 𝐎 𝐏 U+1D54x 𝐐 𝐑 𝐒 𝐓 𝐔 𝐕 𝐖 𝐗 𝐘 𝐙 𝐚 𝐛 𝐜 𝐝 𝐞 𝐟 U+1D55x 𝐠 𝐡 𝐢 𝐣 𝐤 𝐥 𝐦 𝐧 𝐨 𝐩 𝐪 𝐫 𝐬 𝐭 𝐮 𝐯 U+1D56x 𝐰 𝐱 𝐲 𝐳 𝐀 𝐁 𝐂 𝐃 𝐄 𝐅 𝐆 𝐇 𝐈 𝐉 𝐊 𝐋 𝐌 𝐍 𝐎 𝐏 U+1D57x 𝐐 𝐑 𝐒 𝐓 𝐔 𝐕 𝐖 𝐗 𝐘 𝐙 𝐚 𝐛 𝐜 𝐝 𝐞 𝐟 U+1D58x 𝐠 𝐡 𝐢 𝐣 𝐤 𝐥 𝐦 𝐧 𝐨 𝐩 𝐪 𝐫 𝐬 𝐭 𝐮 𝐯 U+1D59x 𝐰 𝐱 𝐲 𝐳 𝐀 𝐁 𝐂 𝐃 𝐄 𝐅 𝐆 𝐇 𝐈 𝐉 𝐊 𝐋 𝐌 𝐍 𝐎 𝐏 U+1D5Ax 𝐐 𝐑 𝐒 𝐓 𝐔 𝐕 𝐖 𝐗 𝐘 𝐙 𝐚 𝐛 𝐜 𝐝 𝐞 𝐟 U+1D5Bx 𝐠 𝐡 𝐢 𝐣 𝐤 𝐥 𝐦 𝐧 𝐨 𝐩 𝐪 𝐫 𝐬 𝐭 𝐮 𝐯 U+1D5Cx 𝐰 𝐱 𝐲 𝐳 𝐀 𝐁 𝐂 𝐃 𝐄 𝐅 𝐆 𝐇 𝐈 𝐉 𝐊 𝐋 𝐌 𝐍 𝐎 𝐏 U+1D5Dx 𝐐 𝐑 𝐒 𝐓 𝐔 𝐕 𝐖 𝐗 𝐘 𝐙 𝐚 𝐛 𝐜 𝐝 𝐞 𝐟 U+1D5Ex 𝐠 𝐡 𝐢 𝐣 𝐤 𝐥 𝐦 𝐧 𝐨 𝐩 𝐪 𝐫 𝐬 𝐭 𝐮 𝐯 U+1D5Fx 𝐰 𝐱 𝐲 𝐳 𝐀 𝐁 𝐂 𝐃 𝐄 𝐅 𝐆 𝐇 𝐈 𝐉 𝐊 𝐋 𝐌 𝐍 𝐎 𝐏 U+1D60x 𝐐 𝐑 𝐒 𝐓 𝐔 𝐕 𝐖 𝐗 𝐘 𝐙 𝐚 𝐛 𝐜 𝐝 𝐞 𝐟 U+1D61x 𝐠 𝐡 𝐢 𝐣 𝐤 𝐥 𝐦 𝐧 𝐨 𝐩 𝐪 𝐫 𝐬 𝐭 U+1D62x 𝐮 𝐯 𝐰 𝐱 𝐲 𝐳 𝐀 𝐁 𝐂 𝐃 𝐄 𝐅 𝐆 𝐇 𝐈 𝐉 U+1D63x 𝐊 𝐋 𝐌 𝐍 𝐎 𝐏 𝐐 𝐑 𝐒 𝐓 𝐔 𝐕 𝐖 𝐗 𝐘 𝐙 𝐚 U+1D64x 𝐛 𝐜 𝐝 𝐞 𝐟 𝐠 𝐡 𝐢 𝐣 𝐤 𝐥 𝐦 𝐧 𝐨 𝐩 U+1D65x 𝐪 𝐫 𝐬 𝐭 𝐮 𝐯 𝐰 𝐱 𝐲 𝐳 𝐀 𝐁 𝐂 𝐃 𝐄 𝐅 U+1D66x 𝐆 𝐇 𝐈 𝐉 𝐊 𝐋 𝐌 𝐍 𝐎 𝐏 𝐐 𝐑 𝐒 𝐓 𝐔 𝐕 U+1D67x 𝐖 𝐗 𝐘 𝐙 𝐚 𝐛 𝐜 𝐝 𝐞 𝐟 𝐠 𝐡 𝐢 𝐣 𝐤 𝐥 𝐦 𝐧 𝐨 𝐩 U+1D68x 𝐪 𝐫 𝐬 𝐭 𝐮 𝐯 𝐰 𝐱 𝐲 𝐳 𝐀 𝐁 𝐂 𝐃 𝐄 𝐅 𝐆 𝐇 𝐈 𝐉 𝐊 𝐋 𝐌 𝐍 𝐎 𝐏 U+1D69x 𝐐 𝐑 𝐒 𝐓 𝐔 𝐕 𝐖 𝐗 𝐘 𝐙 𝐚 𝐛 𝐜 𝐝 𝐞 𝐟 𝐠 𝐡 𝐢 𝐣 𝐤 𝐥 𝐦 𝐧 𝐨 𝐩 𝐪 𝐫 𝐬 𝐭 U+1D6Ax 𝐮 𝐯 𝐰 𝐱 𝐲 𝐳 𝛢 𝛣 𝛤 𝛥 𝛦 𝛧 𝛨 𝛩 𝛪 𝛫 𝛬 𝛭 𝛮 𝛯 𝛰 𝛱 𝛲 𝛳 𝛴 𝛵 𝛶 𝛷 𝛸 𝛹 𝛺 𝛻 𝛼 𝛽 𝛾 𝛿 𝜀 𝜁 𝜂 𝜃 𝜄 𝜅 𝜆 𝜇 𝜈 𝜉 𝜊 𝜋 𝜌 𝜍 𝜎 𝜏 𝜐 𝜑 𝜒 𝜓 𝜔 𝜖 𝜗 𝜘 𝜙 𝜚 𝜛 U+1D6Bx 𝜜 𝜝 𝜞 𝜟 𝜠 𝜡 𝜢 𝜣 𝜤 𝜥 𝜦 𝜧 𝜨 𝜩 𝜪 𝜫 𝜬 𝜭 𝜮 𝜯 𝜰 𝜱 𝜲 𝜳 𝜴 𝜵 𝜶 𝜷 𝜸 𝜹 𝜺 𝜻 𝜼 𝜽 𝜾 𝜿 𝝀 𝝁 𝝂 𝝃 𝝄 𝝅 𝝆 𝝇 𝝈 𝝉 𝝊 𝝋 𝝌 𝝍 𝝎 𝝏 U+1D6Cx 𝝐 𝝑 𝝒 𝝓 𝝔 𝝕 𝝖 𝝗 𝝘 𝝙 𝝚 𝝛 𝝜 𝝝 𝝞 𝝟 𝝠 𝝡 𝝢 𝝣 𝝤 𝝥 𝝦 𝝧 𝝨 𝝩 𝝪 𝝫 𝝬 𝝭 𝝮 𝝯 𝝰 𝝱 𝝲 𝝳 𝝴 𝝵 𝝶 𝝷 𝝸 𝝹 𝝺 𝝻 𝝼 𝝽 𝝾 𝝿 U+1D6Dx 𝞀 𝞁 𝞂 𝞃 𝞄 𝞅 𝞆 𝞇 𝞈 𝞉 𝞊 𝞋 𝞌 𝞍 𝞎 𝞏 𝞐 𝞑 𝞒 𝞓 𝞔 𝞕 𝞖 𝞗 𝞘 𝞙 𝞚 𝞛 𝞜 𝞝 𝞞 𝞟 𝞠 𝞡 𝞢 𝞣 𝞤 𝞥 𝞦 𝞧 𝞨 𝞩 𝞪 𝞫 𝞬 𝞭 𝞮 𝞯 𝞰 𝞱 𝞲 𝞳 𝞴 𝞵 𝞶 𝞷 𝞸 𝞹 𝞺 𝞻 𝞼 𝞽 𝞾 𝞿 U+1D6Ex 𝟀 𝟁 𝟂 𝟃 𝟄 𝟅 𝟆 𝟇 𝟈 𝟉 𝟊 𝟋 𝟌 𝟍 𝟎 𝟏 𝟐 𝟑 𝟒 𝟓 𝟔 𝟕 𝟖 𝟗 𝟘 𝟙 𝟚 𝟛 𝟜 𝟝 𝟞 𝟟 𝟠 𝟡 𝟢 𝟣 𝟤 𝟥 𝟦 𝟧 𝟨 𝟩 𝟪 𝟫 𝟬 𝟭 𝟮 𝟯 𝟰 𝟱 𝟲 𝟳 U+1D6Fx 𝟴 𝟵 𝟶 𝟷 𝟸 𝟹 𝟺 𝟻 𝟼 𝟽 𝟾 𝟿 𝞀 𝞁 𝞂 𝞃 𝞄 𝞅 𝞆 𝞇 𝞈 𝞉 𝞊 𝞋 𝞌 𝞍 𝞎 𝞏 𝞐 𝞑 𝞒 𝞓 𝞔 𝞕 𝞖 𝞗 𝞘 𝞙 𝞚 𝞛 𝞜 𝞝 𝞞 𝞟 𝞠 𝞡 𝞢 𝞣 𝞤 𝞥 𝞦 𝞧 𝞨 𝞩 𝞪 𝞫 𝞬 𝞭 𝞮 𝞯 𝞰 𝞱 𝞲 𝞳 𝞴 𝞵 𝞶 𝞷 𝞸 𝞹 𝞺 𝞻 𝞼 𝞽 𝞾 𝞿 U+1D7Bx 𝟀 𝟁 𝟂 𝟃 𝟄 𝟅 𝟆 𝟇 𝟈 𝟉 𝟊 𝟋 𝟌 𝟍 𝟎 𝟏 𝟐 𝟑 𝟒 𝟓 𝟔 𝟕 𝟖 𝟗 𝟘 𝟙 𝟚 𝟛 𝟜 𝟝 𝟞 𝟟 𝟠 𝟡 𝟢 𝟣 𝟤 𝟥 𝟦 𝟧 𝟨 𝟩 𝟪 𝟫 𝟬 𝟭 𝟮 𝟯 𝟰 𝟱 𝟲 𝟳 U+1D7Cx 𝟴 𝟵 𝟶 𝟷 𝟸 𝟹 𝟺 𝟻 𝟼 𝟽 𝟾 𝟿 U+1D7Dx 𝞊 𝞋 𝞌 𝞍 𝞎 𝞏 𝞐 𝞑 𝞒 𝞓 𝞔 𝞕 𝞖 𝞗 𝞘 𝞙 𝞚 𝞛 𝞜 𝞝 𝞞 𝞟 𝞠 𝞡 𝞢 𝞣 𝞤 𝞥 𝞦 𝞧 𝞨 𝞩 𝞪 𝞫 𝞬 𝞭 𝞮 𝞯 𝞰 𝞱 𝞲 𝞳 𝞴 𝞵 𝞶 𝞷 𝞸 𝞹 𝞺 𝞻 𝞼 𝞽 𝞾 𝞿 U+1D7Ex 𝟀 𝟁 𝟂 𝟃 𝟄 𝟅 𝟆 𝟇 𝟈 𝟉 𝟊 𝟋 𝟌 𝟍 𝟎 𝟏 𝟐 𝟑 𝟒 𝟓 𝟔 𝟕 𝟖 𝟗 𝟘 𝟙 𝟚 𝟛 𝟜 𝟝 𝟞 𝟟 𝟠 𝟡 𝟢 𝟣 𝟤 𝟥 𝟦 𝟧 𝟨 𝟩 𝟪 𝟫 𝟬 𝟭 𝟮 𝟯 𝟰 𝟱 𝟲 𝟳 U+1D7Fx 𝟴 𝟵 𝟶 𝟷 𝟸 𝟹 𝟺 𝟻 𝟼 𝟽 𝟾 𝟿 Notes 1.^ As of Unicode version 14.0 2.^ Grey areas indicate non-assigned code points Letterlike Symbols block Main article: Letterlike Symbols (Unicode block) The Letterlike Symbols block (U+2100–U+214F) includes variables. Most alphabetic math symbols are in the Mathematical Alphanumeric Symbols block shown above. The math subset of this block is U+2102, U+2107, U+210A–U+2113, U+2115, U+2118–U+2119, U+2124, U+2128–U+2129, U+212C, U+212F, U+2133, U+2135, U+213C–U+2149, and U+214B. Letterlike Symbols[1] Official Unicode Consortium code chart (PDF) 0 1 2 3 4 5 6 7 8 9 A B C D E F U+210x ℀ ℁ ℂ ℃ ℄ ℅ ℆ ℇ ℈ ℉ ℊ ℋ ℌ ℍ ℎ ℏ U+211x ℐ ℑ ℒ ℓ ℔ ℕ № ℗ ℘ ℙ ℚ ℛ ℜ ℝ ℞ ℟ U+212x ℠ ™ ℡ ™ ℣ ℤ ℥ Ω ℧ ℨ ℩ K Å ℬ ℭ ℮ ℯ U+213x ℰ ℱ Ⅎ ℳ ℴ ℵ ℶ ℷ ℸ ℹ ℺ ⅀ ⅁ ⅂ ⅃ ⅄ ⅅ ⅆ ⅇ ⅈ ⅉ ⅊ ⅋ ⅌ ⅍ ⅎ ⅏ U+214x ⅐ ⅑ ⅒ ⅓ ⅔ ⅕ ⅖ ⅗ ⅘ ⅙ ⅚ ⅛ ⅜ ⅝ ⅞ ⅟ Notes 1.^ As of Unicode version 14.0 Miscellaneous Mathematical Symbols-A block Main article: Miscellaneous Mathematical Symbols-A (Unicode block) The Miscellaneous Mathematical Symbols-A block (U+27C0–U+27EF) contains characters for mathematical, logical, and database notation. Miscellaneous Mathematical Symbols-A[1]Official Unicode Consortium code chart (PDF) 0 1 2 3 4 5 6 7 8 9 A B C D E F U+27Cx ⟀ ⟁ ⟂ ⟃ ⟄ ⟅ ⟆ ⟇ ⟈ ⟉ ⟊ ⟋ ⟌ ⟍ ⟎ ⟏ U+27Dx ⟐ ⟑ ⟒ ⟓ ⟔ ⟕ ⟖ ⟗ ⟘ ⟙ ⟚ ⟛ ⟜ ⟝ ⟞ ⟟ U+27Ex ⟠ ⟡ ⟢ ⟣ ⟤ ⟥ ⟦ ⟧ ⟨ ⟩ ⟪ ⟫ ⟬ ⟭ ⟮ ⟯ U+27Fx ⟰ ⟱ ⟲ ⟳ ⟴ ⟵ ⟶ ⟷ ⟸ ⟹ ⟺ ⟻ ⟼ ⟽ ⟾ ⟿ Notes 1.^ As of Unicode version 14.0 Miscellaneous Mathematical Symbols-B block Main article: Miscellaneous Mathematical Symbols-B (Unicode block) The Miscellaneous Mathematical Symbols-B block (U+2980–U+29FF) contains miscellaneous mathematical symbols, including brackets, angles, and circle symbols. Miscellaneous Mathematical Symbols-B[1]Official Unicode Consortium code chart (PDF) 0 1 2 3 4 5 6 7 8 9 A B C D E F U+298x ⦀ ⦁ ⦂ ⦃ ⦄ ⦅ ⦆ ⦇ ⦈ ⦉ ⦊ ⦋ ⦌ ⦍ ⦎ ⦏ U+299x ⦐ ⦑ ⦒ ⦓ ⦔ ⦕ ⦖ ⦗ ⦘ ⦙ ⦚ ⦛ ⦜ ⦝ ⦞ ⦟ U+29Ax ⦠ ⦡ ⦢ ⦣ ⦤ ⦥ ⦦ ⦧ ⦨ ⦩ ⦪ ⦫ ⦬ ⦭ ⦮ ⦯ U+29Bx ⦰ ⦱ ⦲ ⦳ ⦴ ⦵ ⦶ ⦷ ⦸ ⦹ ⦺ ⦻ ⦼ ⦽ ⦾ ⦿ U+29Cx ⧀ ⧁ ⧂ ⧃ ⧄ ⧅ ⧆ ⧇ ⧈ ⧉ ⧊ ⧋ ⧌ ⧍ ⧎ ⧏ U+29Dx ⧐ ⧑ ⧒ ⧓ ⧔ ⧕ ⧖ ⧗ ⧘ ⧙ ⧚ ⧛ ⧜ ⧝ ⧞ ⧟ U+29Ex ⧠ ⧡ ⧢ ⧣ ⧤ ⧥ ⧦ ⧧ ⧨ ⧩ ⧪ ⧫ ⧬ ⧭ ⧮ ⧯ U+29Fx ⧰ ⧱ ⧲ ⧳ ⧴ ⧵ ⧶ ⧷ ⧸ ⧹ ⧺ ⧻ ⧼ ⧽ ⧾ ⧿ Notes 1.^ As of Unicode version 14.0 Miscellaneous Technical block Main article: Miscellaneous Technical (Unicode block) The Miscellaneous Technical block (U+2300–U+23FF) includes braces and operators. The math subset of this block is U+2308–U+230B, U+2320-U+2321, U+237C, U+239B-U+23B5, 23B7, U+23D0, and U+23DC-U+23E2. Miscellaneous Technical[1][2]Official Unicode Consortium code chart (PDF) 0 1 2 3 4 5 6 7 8 9 A B C D E F U+230x ⌀ ⌁ ⌂ ⌃ ⌄ ⌅ ⌆ ⌇ ⌈ ⌉ ⌊ ⌋ ⌌ ⌍ ⌎ ⌏ U+231x ⌐ ⌑ ⌒ ⌓ ⌔ ⌕ ⌖ ⌗ ⌘ ⌙ ⌚ ⌛ ⌜ ⌝ ⌞ ⌟ U+232x ⌠ ⌡ ⌢ ⌣ ⌤ ⌥ ⌦ ⌧ ⌨ 〈 〉 ⌫ ⌬ ⌭ ⌮ U+233x ⌯ ⌰ ⌱ ⌲ ⌳ ⌴ ⌵ ⌶ ⌷ ⌸ ⌹ ⌺ ⌻ ⌼ ⌽ ⌾ ⌿ U+234x ⍀ ⍁ ⍂ ⍃ ⍄ ⍅ ⍆ ⍇ ⍈ ⍉ ⍊ ⍋ ⍌ ⍍ ⍎ ⍏ ⍐ ⍑ ⍒ ⍓ ⍔ ⍕ ⍖ ⍗ ⍘ ⍙ ⍚ ⍛ ⍜ ⍝ ⍞ ⍟ U+235x ⍠ ⍡ ⍢ ⍣ ⍤ ⍥ ⍦ ⍧ ⍨ ⍩ ⍪ ⍫ ⍬ ⍭ ⍮ ⍯ ⍰ ⍱ ⍲ ⍳ ⍴ ⍵ ⍶ ⍷ ⍸ ⍹ ⍺ U+236x ⍻ ⍼ ⍽ ⍾ ⍿ ⎀ ⎁ ⎂ ⎃ ⎄ ⎅ ⎆ ⎇ ⎈ ⎉ ⎊ ⎋ ⎌ ⎍ ⎎ ⎏ ⎐ ⎑ ⎒ ⎓ ⎔ ⎕ ⎖ ⎗ ⎘ ⎙ ⎚ ⎛ ⎜ ⎝ ⎞ ⎟ U+237x ⎠ ⎡ ⎢ ⎣ ⎤ ⎥ ⎦ ⎧ ⎨ ⎩ ⎪ ⎫ ⎬ ⎭ ⎮ ⎯ ⎰ ⎱ ⎲ ⎳ ⎴ ⎵ ⎶ ⎷ ⎸ ⎹ ⎺ ⎻ ⎼ ⎽ ⎾ ⎿ U+238x ⏀ ⏁ ⏂ ⏃ ⏄ ⏅ ⏆ ⏇ ⏈ ⏉ ⏊ ⏋ ⏌ ⏍ ⏎ ⏏ U+239x ⏐ ⏑ ⏒ ⏓ ⏔ ⏕ ⏖ ⏗ ⏘ ⏙ ⏚ ⏛ ⏜ ⏝ ⏞ ⏟ U+23Ax ⏠ ⏡ ⏢ ⏣ ⏤ ⏥ ⏦ ⏧ ⏨ ⏩ ⏪ ⏫ ⏬ ⏭ ⏮ ⏯ U+23Bx ⏰ ⏱ ⏲ ⏳ ⏴ ⏵ ⏶ ⏷ ⏸ ⏹ ⏺ ⏻ ⏼ ⏽ ⏾ ⏿ U+23Cx ␀ ␁ ␂ ␃ ␄ ␅ ␆ ␇ ␈ ␉ ␊ ␋ ␌ ␍ ␎ ␏ U+23Dx ␐ ␑ ␒ ␓ ␔ ␕ ␖ ␗ ␘ ␙ ␚ ␛ ␜ ␝ ␞ ␟ U+23Ex ␠ ␡ ␢ ␣ ␤ ␥ ␦ ␧ ␨ ␩ ␪ ␫ ␬ ␭ ␮ ␯ U+23Fx ␰ ␱ ␲ ␳ ␴ ␵ ␶ ␷ ␸ ␹ ␺ ␻ ␼ ␽ ␾ ␿ Notes 1.^ As of Unicode version 14.0 2.^ Unicode code points U+2329 and U+232A are deprecated as of Unicode version 5.2 Geometric Shapes block Main article: Geometric Shapes (Unicode block) The Geometric Shapes block (U+25A0–U+25FF) contains geometric shape symbols. The math subset of this block is U+25A0–25A1, U+25AE–25B7, U+25BC–25C1, U+25C6–25C7, U+25CA–25CB, U+25CF–25D3, U+25E2, U+25E4, U+25E7–25EC, and U+25F8–25FF. Geometric Shapes[1]Official Unicode Consortium code chart (PDF) 0 1 2 3 4 5 6 7 8 9 A B C D E F U+25Ax ■ □ ▢ ▣ ▤ ▥ ▦ ▧ ▨ ▩ ▪ ▫ ▬ ▭ ▮ ▯ U+25Bx ▰ ▱ ▲ △ ▴ ▵ ▶ ▷ ▸ ▹ ► ▽ ▼ ▾ ▿ U+25Cx ◀ ◁ ◂ ◃ ◄ ◅ ◆ ◇ ◈ ◉ ◊ ○ ◌ ◍ ◎ ● U+25Dx ◐ ◑ ◒ ◓ ◔ ◕ ◖ ◗ ◘ ◙ ◚ ◛ ◜ ◝ ◞ ◟ U+25Ex ◠ ◡ ◢ ◣ ◤ ◥ ◦ ◧ ◨ ◩ ◪ ◫ ◬ ◭ ◮ ◯ U+25Fx ◰ ◱ ◲ ◳ ◴ ◵ ◶ ◷ ◸ ◹ ◺ ◻ ◼ ◽ ◾ ◿ Notes 1.^ As of Unicode version 14.0 Miscellaneous Symbols and Arrows block Main article: Miscellaneous Symbols and Arrows (Unicode block) The Miscellaneous Symbols and Arrows block (U+2B00–U+2BFF Arrows) contains arrows and geometric shapes with various fills. The math subset of this block is U+2B30–2B44 and U+2B47–2B4C. Miscellaneous Symbols and Arrows[1][2]Official Unicode Consortium code chart (PDF) 0 1 2 3 4 5 6 7 8 9 A B C D E F U+2B0x ⬀ ⬁ ⬂ ⬃ ⬄ ⬅ ⬆ ⬇ ⬈ ⬉ ⬊ ⬋ ⬌ ⬍ ⬎ ⬏ U+2B1x ⬐ ⬑ ⬒ ⬓ ⬔ ⬕ ⬖ ⬗ ⬘ ⬙ ⬚ ⬛ ⬜ ⬝ ⬞ ⬟ U+2B2x ⬠ ⬡ ⬢ ⬣ ⬤ ⬥ ⬦ ⬧ ⬨ ⬩ ⬪ ⬫ ⬬ ⬭ ⬮ ⬯ U+2B3x ⬰ ⬱ ⬲ ⬳ ⬴ ⬵ ⬶ ⬷ ⬸ ⬹ ⬺ ⬻ ⬼ ⬽ ⬾ ⬿ U+2B4x ⭀ ⭁ ⭂ ⭃ ⭄ ⭅ ⭆ ⭇ ⭈ ⭉ ⭊ ⭋ ⭌ ⭍ ⭎ ⭏ U+2B5x ⭐ ⭑ ⭒ ⭓ ⭔ ⭕ ⭖ ⭗ ⭘ ⭙ ⭚ ⭛ ⭜ ⭝ ⭞