

**Standard entities derived from <https://www.w3.org/2003/entities/2007/htmlmathml-f.ent>**

**&Aacute;** =  $\text{Á}$  LATIN CAPITAL LETTER A WITH ACUTE

**&aacute;** =  $\text{á}$  LATIN SMALL LETTER A WITH ACUTE

**&Abreve;** =  $\text{Ă}$  LATIN CAPITAL LETTER A WITH BREVE

**&abreve;** =  $\text{ă}$  LATIN SMALL LETTER A WITH BREVE

**&ac;** =  $\text{∞}$  INVERTED LAZY S

**&acd;** =  $\text{∩}$  SINE WAVE

**&acE;** =  $\text{∞}$  INVERTED LAZY S with double underline

**&Acirc;** =  $\text{Â}$  LATIN CAPITAL LETTER A WITH CIRCUMFLEX

**&acirc;** =  $\text{â}$  LATIN SMALL LETTER A WITH CIRCUMFLEX

**&acute;** =  $\text{´}$  ACUTE ACCENT

**&Acy;** =  $\text{А}$  CYRILLIC CAPITAL LETTER A

**&acy;** =  $\text{а}$  CYRILLIC SMALL LETTER A

**&AElig;** =  $\text{Æ}$  LATIN CAPITAL LETTER AE

**&aelig;** =  $\text{æ}$  LATIN SMALL LETTER AE

**&af;** = FUNCTION APPLICATION

**&Afr;** =  $\text{𝐀}$  MATHEMATICAL FRAKTUR CAPITAL A

**&afr;** =  $\text{𝐁}$  MATHEMATICAL FRAKTUR SMALL A

**&Agrave;** =  $\text{À}$  LATIN CAPITAL LETTER A WITH GRAVE

**&agrave;** =  $\text{à}$  LATIN SMALL LETTER A WITH GRAVE

**&alefsym;** =  $\text{ℵ}$  ALEF SYMBOL

**&aleph;** =  $\text{ℵ}$  ALEF SYMBOL

**&Alpha;** =  $\text{Α}$  GREEK CAPITAL LETTER ALPHA

**&alpha;** =  $\text{α}$  GREEK SMALL LETTER ALPHA

**&Amacr;** =  $\text{Ā}$  LATIN CAPITAL LETTER A WITH MACRON

**&amacr;** =  $\text{ā}$  LATIN SMALL LETTER A WITH MACRON

**&amalg;** =  $\text{⊠}$  AMALGAMATION OR COPRODUCT

**&AMP;** =  $\text{&}$  AMPERSAND

**&amp;** =  $\text{&}$  AMPERSAND

**&And;** =  $\text{⋈}$  DOUBLE LOGICAL AND

**&and;** =  $\text{∧}$  LOGICAL AND

**&andand;** =  $\text{⋈}$  TWO INTERSECTING LOGICAL AND

**&andd;** =  $\text{⋈}$  LOGICAL AND WITH HORIZONTAL DASH

**&andslope;** =  $\text{⋈}$  SLOPING LARGE AND

**&andv;** =  $\text{⋈}$  LOGICAL AND WITH MIDDLE STEM

**&ang;** =  $\text{∠}$  ANGLE

**&ange;** =  $\text{∠}$  ANGLE WITH UNDERBAR

**&angle;** =  $\text{∠}$  ANGLE

**&angmsd;** =  $\text{∠}$  MEASURED ANGLE

**&angmsdaa;** =  $\text{∠}$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING UP AND RIGHT

**&angmsdab;** =  $\text{∠}$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING UP AND LEFT

**&angmsdac;** =  $\text{∠}$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING DOWN AND RIGHT

**&angmsdad;** =  $\text{∠}$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING DOWN AND LEFT

**&angmsdae;** =  $\text{∠}$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING RIGHT AND UP

**&angmsdaf;** =  $\text{∠}$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING LEFT AND UP

**&angmsdag;** =  $\text{∠}$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING RIGHT AND DOWN

**&angmsdah;** =  $\text{∠}$  MEASURED ANGLE WITH OPEN ARM ENDING IN ARROW POINTING LEFT AND DOWN

**&angrt;** =  $\text{∟}$  RIGHT ANGLE

**&angrtvb;** =  $\text{∟}$  RIGHT ANGLE WITH ARC

**&angrtvbd;** =  $\text{∟}$  MEASURED RIGHT ANGLE WITH DOT

**&angsph;** =  $\text{∠}$  SPHERICAL ANGLE

**&angst;** =  $\text{Å}$  LATIN CAPITAL LETTER A WITH RING ABOVE

**&angzarr;** =  $\text{∟}$  RIGHT ANGLE WITH DOWNWARDS ZIGZAG ARROW

**&Aogon;** =  $\text{Ą}$  LATIN CAPITAL LETTER A WITH OGONEK

**&aogon;** =  $\text{ą}$  LATIN SMALL LETTER A WITH OGONEK

**&Aopf;** =  $\text{⌘}$  MATHEMATICAL DOUBLE-STRUCK CAPITAL A

**&aopf;** =  $\text{⌘}$  MATHEMATICAL DOUBLE-STRUCK SMALL A

**&ap;** =  $\text{≈}$  ALMOST EQUAL TO

**&apacir;** =  $\text{⋈}$  ALMOST EQUAL TO WITH CIRCUMFLEX ACCENT

**&apE;** =  $\text{⋈}$  APPROXIMATELY EQUAL OR EQUAL TO

**&ape;** =  $\text{≈}$  ALMOST EQUAL OR EQUAL TO

**&apid;** =  $\text{≡}$  TRIPLE TILDE

**&apos;** =  $\text{'}$  APOSTROPHE

**&ApplyFunction;** = FUNCTION APPLICATION

**&approx;** =  $\approx$  ALMOST EQUAL TO  
**&approxeq;** =  $\cong$  ALMOST EQUAL OR EQUAL TO  
**&Aring;** = Å LATIN CAPITAL LETTER A WITH RING ABOVE  
**&aring;** = å LATIN SMALL LETTER A WITH RING ABOVE  
**&Ascr;** = ℳ MATHEMATICAL SCRIPT CAPITAL A  
**&ascr;** = ℳ MATHEMATICAL SCRIPT SMALL A  
**&Assign;** = := COLON EQUALS  
**&ast;** = \* ASTERISK  
**&asymp;** =  $\approx$  ALMOST EQUAL TO  
**&asympeq;** =  $\asymp$  EQUIVALENT TO  
**&Atilde;** = Ã LATIN CAPITAL LETTER A WITH TILDE  
**&atilde;** = ã LATIN SMALL LETTER A WITH TILDE  
**&Auml;** = Ä LATIN CAPITAL LETTER A WITH DIAERESIS  
**&auml;** = ä LATIN SMALL LETTER A WITH DIAERESIS  
**&awconint;** = ∫ ANTICLOCKWISE CONTOUR INTEGRAL  
**&awint;** = ∫ ANTICLOCKWISE INTEGRATION  
**&backcong;** =  $\equiv$  ALL EQUAL TO  
**&backepsilon;** =  $\epsilon$  GREEK REVERSED LUNATE EPSILON SYMBOL  
**&backprime;** = ` REVERSED PRIME  
**&backsim;** =  $\sim$  REVERSED TILDE  
**&backsimeq;** =  $\backsimeq$  REVERSED TILDE EQUALS  
**&Backslash;** = \ SET MINUS  
**&Barv;** = ¯ SHORT DOWN TACK WITH OVERBAR  
**&barvee;** =  $\nabla$  NOR  
**&Barwed;** =  $\bar{\wedge}$  PERSPECTIVE  
**&barwed;** =  $\bar{\wedge}$  PROJECTIVE  
**&barwedge;** =  $\bar{\wedge}$  PROJECTIVE  
**&bbrk;** =  $\square$  BOTTOM SQUARE BRACKET  
**&bbrktbrk;** =  $\square$  BOTTOM SQUARE BRACKET OVER TOP SQUARE BRACKET  
**&bcong;** =  $\equiv$  ALL EQUAL TO  
**&Bcy;** = Б CYRILLIC CAPITAL LETTER BE  
**&bcy;** = б CYRILLIC SMALL LETTER BE  
**&bdquo;** = „ DOUBLE LOW-9 QUOTATION MARK  
**&because;** = ∴ BECAUSE  
**&Because;** = ∴ BECAUSE  
**&because;** = ∴ BECAUSE  
**&bemptyv;** =  $\square$  REVERSED EMPTY SET  
**&bepsi;** =  $\epsilon$  GREEK REVERSED LUNATE EPSILON SYMBOL  
**&bernou;** = ℬ SCRIPT CAPITAL B  
**&Bernoulli;** = ℬ SCRIPT CAPITAL B  
**&Beta;** = Β GREEK CAPITAL LETTER BETA  
**&beta;** = β GREEK SMALL LETTER BETA  
**&beth;** = ⚭ BET SYMBOL  
**&between;** = ⋈ BETWEEN  
**&Bfr;** =  $\mathfrak{B}$  MATHEMATICAL FRAKTUR CAPITAL B  
**&bfr;** =  $\mathfrak{b}$  MATHEMATICAL FRAKTUR SMALL B  
**&bigcap;** =  $\bigcap$  N-ARY INTERSECTION  
**&bigcirc;** =  $\bigcirc$  LARGE CIRCLE  
**&bigcup;** =  $\bigcup$  N-ARY UNION  
**&bigodot;** =  $\bigodot$  N-ARY CIRCLED DOT OPERATOR  
**&bigoplus;** =  $\bigoplus$  N-ARY CIRCLED PLUS OPERATOR  
**&bigotimes;** =  $\bigotimes$  N-ARY CIRCLED TIMES OPERATOR  
**&bigsqcup;** =  $\bigsqcup$  N-ARY SQUARE UNION OPERATOR  
**&bigstar;** = ★ BLACK STAR  
**&bigtriangledown;** =  $\bigtriangledown$  WHITE DOWN-POINTING TRIANGLE  
**&bigtriangleup;** =  $\bigtriangleup$  WHITE UP-POINTING TRIANGLE  
**&biguplus;** =  $\biguplus$  N-ARY UNION OPERATOR WITH PLUS  
**&bigvee;** =  $\bigvee$  N-ARY LOGICAL OR  
**&bigwedge;** =  $\bigwedge$  N-ARY LOGICAL AND  
**&bkarow;** =  $\blacktriangleright$  RIGHTWARDS DOUBLE DASH ARROW  
**&blacklozenge;** =  $\blacklozenge$  BLACK LOZENGE  
**&blacksquare;** =  $\blacksquare$  BLACK SMALL SQUARE  
**&blacktriangle;** =  $\blacktriangle$  BLACK UP-POINTING SMALL TRIANGLE  
**&blacktriangledown;** =  $\blacktriangledown$  BLACK DOWN-POINTING SMALL TRIANGLE

**&blacktriangleleft;** = ◀ BLACK LEFT-POINTING SMALL TRIANGLE  
**&blacktriangleright;** = ▶ BLACK RIGHT-POINTING SMALL TRIANGLE  
**&blank;** = ☐ OPEN BOX  
**&blk12;** = ▒ MEDIUM SHADE  
**&blk14;** = ░ LIGHT SHADE  
**&blk34;** = ▓ DARK SHADE  
**&block;** = ■ FULL BLOCK  
**&bne;** = =≡ EQUALS SIGN with reverse slash  
**&bnequiv;** = ≡ IDENTICAL TO with reverse slash  
**&bNot;** = ◻ REVERSED DOUBLE STROKE NOT SIGN  
**&bnot;** = ¬ REVERSED NOT SIGN  
**&Bopf;** = ℬ MATHEMATICAL DOUBLE-STROCK CAPITAL B  
**&bopf;** = ℔ MATHEMATICAL DOUBLE-STROCK SMALL B  
**&bot;** = ⊥ UP TACK  
**&bottom;** = ⊥ UP TACK  
**&bowtie;** = ✕ BOWTIE  
**&boxbox;** = ◻ TWO JOINED SQUARES  
**&boxDL;** = ⌞ BOX DRAWINGS DOUBLE DOWN AND LEFT  
**&boxDI;** = ⌝ BOX DRAWINGS DOWN DOUBLE AND LEFT SINGLE  
**&boxdL;** = ⌜ BOX DRAWINGS DOWN SINGLE AND LEFT DOUBLE  
**&boxdl;** = ⌚ BOX DRAWINGS LIGHT DOWN AND LEFT  
**&boxDR;** = ⌞ BOX DRAWINGS DOUBLE DOWN AND RIGHT  
**&boxDr;** = ⌝ BOX DRAWINGS DOWN DOUBLE AND RIGHT SINGLE  
**&boxdR;** = ⌜ BOX DRAWINGS DOWN SINGLE AND RIGHT DOUBLE  
**&boxdr;** = ⌚ BOX DRAWINGS LIGHT DOWN AND RIGHT  
**&boxH;** = = BOX DRAWINGS DOUBLE HORIZONTAL  
**&boxh;** = - BOX DRAWINGS LIGHT HORIZONTAL  
**&boxHD;** = ⌞ BOX DRAWINGS DOUBLE DOWN AND HORIZONTAL  
**&boxHd;** = ⌝ BOX DRAWINGS DOWN SINGLE AND HORIZONTAL DOUBLE  
**&boxhD;** = ⌜ BOX DRAWINGS DOWN DOUBLE AND HORIZONTAL SINGLE  
**&boxhd;** = ⌚ BOX DRAWINGS LIGHT DOWN AND HORIZONTAL  
**&boxHU;** = ⌞ BOX DRAWINGS DOUBLE UP AND HORIZONTAL  
**&boxHu;** = ⌝ BOX DRAWINGS UP SINGLE AND HORIZONTAL DOUBLE  
**&boxhU;** = ⌜ BOX DRAWINGS UP DOUBLE AND HORIZONTAL SINGLE  
**&boxhu;** = ⌚ BOX DRAWINGS LIGHT UP AND HORIZONTAL  
**&boxminus;** = ⊖ SQUARED MINUS  
**&boxplus;** = ⊕ SQUARED PLUS  
**&boxtimes;** = ⊗ SQUARED TIMES  
**&boxUL;** = ⌞ BOX DRAWINGS DOUBLE UP AND LEFT  
**&boxUI;** = ⌝ BOX DRAWINGS UP DOUBLE AND LEFT SINGLE  
**&boxuL;** = ⌜ BOX DRAWINGS UP SINGLE AND LEFT DOUBLE  
**&boxul;** = ⌚ BOX DRAWINGS LIGHT UP AND LEFT  
**&boxUR;** = ⌞ BOX DRAWINGS DOUBLE UP AND RIGHT  
**&boxUr;** = ⌝ BOX DRAWINGS UP DOUBLE AND RIGHT SINGLE  
**&boxuR;** = ⌜ BOX DRAWINGS UP SINGLE AND RIGHT DOUBLE  
**&boxur;** = ⌚ BOX DRAWINGS LIGHT UP AND RIGHT  
**&boxV;** = || BOX DRAWINGS DOUBLE VERTICAL  
**&boxv;** = | BOX DRAWINGS LIGHT VERTICAL  
**&boxVH;** = ⌞ BOX DRAWINGS DOUBLE VERTICAL AND HORIZONTAL  
**&boxVh;** = ⌝ BOX DRAWINGS VERTICAL DOUBLE AND HORIZONTAL SINGLE  
**&boxvH;** = ⌜ BOX DRAWINGS VERTICAL SINGLE AND HORIZONTAL DOUBLE  
**&boxvh;** = ⌚ BOX DRAWINGS LIGHT VERTICAL AND HORIZONTAL  
**&boxVL;** = ⌞ BOX DRAWINGS DOUBLE VERTICAL AND LEFT  
**&boxVI;** = ⌝ BOX DRAWINGS VERTICAL DOUBLE AND LEFT SINGLE  
**&boxvL;** = ⌜ BOX DRAWINGS VERTICAL SINGLE AND LEFT DOUBLE  
**&boxvl;** = ⌚ BOX DRAWINGS LIGHT VERTICAL AND LEFT  
**&boxVR;** = ⌞ BOX DRAWINGS DOUBLE VERTICAL AND RIGHT  
**&boxVr;** = ⌝ BOX DRAWINGS VERTICAL DOUBLE AND RIGHT SINGLE  
**&boxvR;** = ⌜ BOX DRAWINGS VERTICAL SINGLE AND RIGHT DOUBLE  
**&boxvr;** = ⌚ BOX DRAWINGS LIGHT VERTICAL AND RIGHT  
**&bprime;** = ` REVERSED PRIME  
**&Breve;** = ˘ BREVE  
**&breve;** = ˘ BREVE  
**&brvbar;** = | BROKEN BAR

**&Bscr;** =  $\mathcal{B}$  SCRIPT CAPITAL B  
**&bscr;** =  $\mathfrak{B}$  MATHEMATICAL SCRIPT SMALL B  
**&bsemi;** =  $;$  REVERSED SEMICOLON  
**&bsim;** =  $\sim$  REVERSED TILDE  
**&bsime;** =  $\simeq$  REVERSED TILDE EQUALS  
**&bsol;** =  $\backslash$  REVERSE SOLIDUS  
**&bsolb;** =  $\sloppy$  SQUARED FALLING DIAGONAL SLASH  
**&bsolhsub;** =  $\sloppy$  REVERSE SOLIDUS PRECEDING SUBSET  
**&bull;** =  $\bullet$  BULLET  
**&bullet;** =  $\bullet$  BULLET  
**&bump;** =  $\bumpeq$  GEOMETRICALLY EQUIVALENT TO  
**&bumpE;** =  $\Bumpeq$  EQUALS SIGN WITH BUMPY ABOVE  
**&bumpe;** =  $\bumpe$  DIFFERENCE BETWEEN  
**&Bumpeq;** =  $\Bumpeq$  GEOMETRICALLY EQUIVALENT TO  
**&bumpeq;** =  $\bumpe$  DIFFERENCE BETWEEN  
**&Cacute;** =  $\acute{C}$  LATIN CAPITAL LETTER C WITH ACUTE  
**&cacute;** =  $\acute{c}$  LATIN SMALL LETTER C WITH ACUTE  
**&Cap;** =  $\cap$  DOUBLE INTERSECTION  
**&cap;** =  $\cap$  INTERSECTION  
**&capand;** =  $\sqcap$  INTERSECTION WITH LOGICAL AND  
**&capbrcup;** =  $\sqcap$  INTERSECTION ABOVE BAR ABOVE UNION  
**&capcap;** =  $\sqcap$  INTERSECTION BESIDE AND JOINED WITH INTERSECTION  
**&capcup;** =  $\sqcap$  INTERSECTION ABOVE UNION  
**&capdot;** =  $\sqcap$  INTERSECTION WITH DOT  
**&CapitalDifferentialD;** =  $\mathbb{D}$  DOUBLE-STRUCK ITALIC CAPITAL D  
**&caps;** =  $\cap$  INTERSECTION with serifs  
**&caret;** =  $\^$  CARET INSERTION POINT  
**&caron;** =  $\check{C}$  CARON  
**&Cayleys;** =  $\mathfrak{C}$  BLACK-LETTER CAPITAL C  
**&ccaps;** =  $\sqcap$  CLOSED INTERSECTION WITH SERIFS  
**&Ccaron;** =  $\check{C}$  LATIN CAPITAL LETTER C WITH CARON  
**&ccaron;** =  $\check{c}$  LATIN SMALL LETTER C WITH CARON  
**&Ccedil;** =  $\ç$  LATIN CAPITAL LETTER C WITH CEDILLA  
**&ccedil;** =  $\ç$  LATIN SMALL LETTER C WITH CEDILLA  
**&Ccirc;** =  $\mathring{C}$  LATIN CAPITAL LETTER C WITH CIRCUMFLEX  
**&ccirc;** =  $\mathring{c}$  LATIN SMALL LETTER C WITH CIRCUMFLEX  
**&Cconint;** =  $\int$  VOLUME INTEGRAL  
**&ccups;** =  $\sqcup$  CLOSED UNION WITH SERIFS  
**&ccupssm;** =  $\sqcup$  CLOSED UNION WITH SERIFS AND SMASH PRODUCT  
**&Cdot;** =  $\mathring{C}$  LATIN CAPITAL LETTER C WITH DOT ABOVE  
**&cdot;** =  $\mathring{c}$  LATIN SMALL LETTER C WITH DOT ABOVE  
**&cedil;** =  $\ç$  CEDILLA  
**&Cedilla;** =  $\ç$  CEDILLA  
**&emptyv;** =  $\emptyset$  EMPTY SET WITH SMALL CIRCLE ABOVE  
**&cent;** =  $\cent$  CENT SIGN  
**&CenterDot;** =  $\cdot$  MIDDLE DOT  
**&centerdot;** =  $\cdot$  MIDDLE DOT  
**&Cfr;** =  $\mathfrak{C}$  BLACK-LETTER CAPITAL C  
**&cfr;** =  $\mathfrak{C}$  MATHEMATICAL FRAKTUR SMALL C  
**&CHcy;** =  $\mathcal{C}$  CYRILLIC CAPITAL LETTER CHE  
**&chcy;** =  $\mathcal{C}$  CYRILLIC SMALL LETTER CHE  
**&check;** =  $\checkmark$  CHECK MARK  
**&checkmark;** =  $\checkmark$  CHECK MARK  
**&Chi;** =  $\chi$  GREEK CAPITAL LETTER CHI  
**&chi;** =  $\chi$  GREEK SMALL LETTER CHI  
**&cir;** =  $\circ$  WHITE CIRCLE  
**&circ;** =  $\circ$  MODIFIER LETTER CIRCUMFLEX ACCENT  
**&circeq;** =  $\simeq$  RING EQUAL TO  
**&circlearrowleft;** =  $\curvearrowleft$  ANTICLOCKWISE OPEN CIRCLE ARROW  
**&circlearrowright;** =  $\curvearrowright$  CLOCKWISE OPEN CIRCLE ARROW  
**&circledast;** =  $\circledast$  CIRCLED ASTERISK OPERATOR  
**&circledcirc;** =  $\circledcirc$  CIRCLED RING OPERATOR  
**&circleddash;** =  $\circledash$  CIRCLED DASH  
**&CircleDot;** =  $\odot$  CIRCLED DOT OPERATOR

**&circledR;** = ® REGISTERED SIGN  
**&circledS;** = ◊ CIRCLED LATIN CAPITAL LETTER S  
**&CircleMinus;** = ⊖ CIRCLED MINUS  
**&CirclePlus;** = ⊕ CIRCLED PLUS  
**&CircleTimes;** = ⊗ CIRCLED TIMES  
**&cirE;** = ◌ CIRCLE WITH TWO HORIZONTAL STROKES TO THE RIGHT  
**&cire;** = ∞ RING EQUAL TO  
**&cirfnint;** = ∫ CIRCULATION FUNCTION  
**&circmid;** = ◌ VERTICAL LINE WITH CIRCLE ABOVE  
**&cirscir;** = ◌ CIRCLE WITH SMALL CIRCLE TO THE RIGHT  
**&ClockwiseContourIntegral;** = ∫ CLOCKWISE CONTOUR INTEGRAL  
**&CloseCurlyDoubleQuote;** = " RIGHT DOUBLE QUOTATION MARK  
**&CloseCurlyQuote;** = ' RIGHT SINGLE QUOTATION MARK  
**&clubs;** = ♣ BLACK CLUB SUIT  
**&clubsuit;** = ♣ BLACK CLUB SUIT  
**&Colon;** = ∴ PROPORTION  
**&colon;** = ∶ COLON  
**&Colone;** = ∷ DOUBLE COLON EQUAL  
**&colone;** = ∷ COLON EQUALS  
**&coloneq;** = ∷ COLON EQUALS  
**&comma;** = , COMMA  
**&comat;** = @ COMMERCIAL AT  
**&comp;** = ¯ COMPLEMENT  
**&compfn;** = ∘ RING OPERATOR  
**&complement;** = ¯ COMPLEMENT  
**&complexes;** = ℂ DOUBLE-STRUCK CAPITAL C  
**&cong;** = ≅ APPROXIMATELY EQUAL TO  
**&congdot;** = ◌ CONGRUENT WITH DOT ABOVE  
**&Congruent;** = ≡ IDENTICAL TO  
**&Conint;** = ∯ SURFACE INTEGRAL  
**&conint;** = ∫ CONTOUR INTEGRAL  
**&ContourIntegral;** = ∫ CONTOUR INTEGRAL  
**&Copf;** = ℄ DOUBLE-STRUCK CAPITAL C  
**&copf;** = ℄ MATHEMATICAL DOUBLE-STRUCK SMALL C  
**&coprod;** = ∏ N-ARY COPRODUCT  
**&Coproduct;** = ∏ N-ARY COPRODUCT  
**&COPY;** = © COPYRIGHT SIGN  
**&copy;** = © COPYRIGHT SIGN  
**&copysr;** = Ⓒ SOUND RECORDING COPYRIGHT  
**&CounterClockwiseContourIntegral;** = ∫ ANTICLOCKWISE CONTOUR INTEGRAL  
**&crarr;** = ↵ DOWNWARDS ARROW WITH CORNER LEFTWARDS  
**&Cross;** = × VECTOR OR CROSS PRODUCT  
**&cross;** = ✕ BALLOT X  
**&Cscr;** = ℄ MATHEMATICAL SCRIPT CAPITAL C  
**&cscr;** = ℄ MATHEMATICAL SCRIPT SMALL C  
**&csub;** = ⊂ CLOSED SUBSET  
**&csube;** = ⊂ CLOSED SUBSET OR EQUAL TO  
**&csup;** = ⊃ CLOSED SUPERSET  
**&csupe;** = ⊃ CLOSED SUPERSET OR EQUAL TO  
**&ctdot;** = ⋯ MIDLINE HORIZONTAL ELLIPSIS  
**&cudarri;** = ↷ RIGHT-SIDE ARC CLOCKWISE ARROW  
**&cudarr;** = ↷ ARROW POINTING RIGHTWARDS THEN CURVING DOWNWARDS  
**&cuepr;** = ≲ EQUAL TO OR PRECEDES  
**&cuesc;** = ≳ EQUAL TO OR SUCCEEDS  
**&cularr;** = ↶ ANTICLOCKWISE TOP SEMICIRCLE ARROW  
**&cularrp;** = ↶ TOP ARC ANTICLOCKWISE ARROW WITH PLUS  
**&Cup;** = ∪ DOUBLE UNION  
**&cup;** = ∪ UNION  
**&cupbrcap;** = ∩ UNION ABOVE BAR ABOVE INTERSECTION  
**&CupCap;** = ≍ EQUIVALENT TO  
**&cupcap;** = ∩ UNION ABOVE INTERSECTION  
**&cupcup;** = ∪ UNION BESIDE AND JOINED WITH UNION  
**&cupdot;** = ∪ MULTISSET MULTIPLICATION  
**&cupor;** = ∪ UNION WITH LOGICAL OR

**&cup;** = ∪ UNION with serifs  
**&curarr;** = ↻ CLOCKWISE TOP SEMICIRCLE ARROW  
**&curarrm;** = ⤵ TOP ARC CLOCKWISE ARROW WITH MINUS  
**&curlyeqprec;** = ≲ EQUAL TO OR PRECEDES  
**&curlyeqsucc;** = ≳ EQUAL TO OR SUCCEEDS  
**&curlyvee;** = ∨ CURLY LOGICAL OR  
**&curlywedge;** = ∧ CURLY LOGICAL AND  
**&curren;** = ₧ CURRENCY SIGN  
**&curvearrowleft;** = ↶ ANTICLOCKWISE TOP SEMICIRCLE ARROW  
**&curvearrowright;** = ↷ CLOCKWISE TOP SEMICIRCLE ARROW  
**&cuvee;** = ∨ CURLY LOGICAL OR  
**&cuwed;** = ∧ CURLY LOGICAL AND  
**&cwconint;** = ∮ CLOCKWISE CONTOUR INTEGRAL  
**&cwint;** = ∫ CLOCKWISE INTEGRAL  
**&cylcty;** = ∅ CYLINDRICITY  
**&Dagger;** = † DOUBLE DAGGER  
**&dagger;** = † DAGGER  
**&daleth;** = ך DALET SYMBOL  
**&Darr;** = ⇓ DOWNWARDS TWO HEADED ARROW  
**&dArr;** = ⇓ DOWNWARDS DOUBLE ARROW  
**&darr;** = ↓ DOWNWARDS ARROW  
**&dash;** = - HYPHEN  
**&Dashv;** = ⤵ VERTICAL BAR DOUBLE LEFT TURNSTILE  
**&dashv;** = † LEFT TACK  
**&dbkarow;** = ⤵ RIGHTWARDS TRIPLE DASH ARROW  
**&dblac;** = “ DOUBLE ACUTE ACCENT  
**&Dcaron;** = Ď LATIN CAPITAL LETTER D WITH CARON  
**&dcaron;** = ď LATIN SMALL LETTER D WITH CARON  
**&Dcy;** = Д CYRILLIC CAPITAL LETTER DE  
**&dcy;** = д CYRILLIC SMALL LETTER DE  
**&DD;** = Ⓓ DOUBLE-STRUCK ITALIC CAPITAL D  
**&dd;** = ⓓ DOUBLE-STRUCK ITALIC SMALL D  
**&ddagger;** = † DOUBLE DAGGER  
**&ddarr;** = ⇓ DOWNWARDS PAIRED ARROWS  
**&DDotrahd;** = ⤵ RIGHTWARDS ARROW WITH DOTTED STEM  
**&ddotseq;** = ⋈ EQUALS SIGN WITH TWO DOTS ABOVE AND TWO DOTS BELOW  
**&deg;** = ° DEGREE SIGN  
**&Del;** = ∇ NABLA  
**&Delta;** = Δ GREEK CAPITAL LETTER DELTA  
**&delta;** = δ GREEK SMALL LETTER DELTA  
**&emptyv;** = ∅ EMPTY SET WITH OVERBAR  
**&dfisht;** = ⚶ DOWN FISH TAIL  
**&Dfr;** = Ⓕ MATHEMATICAL FRAKTUR CAPITAL D  
**&dfr;** = Ⓣ MATHEMATICAL FRAKTUR SMALL D  
**&dHar;** = ⚷ DOWNWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT  
**&dharl;** = ⚶ DOWNWARDS HARPOON WITH BARB LEFTWARDS  
**&dharr;** = ⚷ DOWNWARDS HARPOON WITH BARB RIGHTWARDS  
**&DiacriticalAcute;** = ´ ACUTE ACCENT  
**&DiacriticalDot;** = ˙ DOT ABOVE  
**&DiacriticalDoubleAcute;** = “ DOUBLE ACUTE ACCENT  
**&DiacriticalGrave;** = ` GRAVE ACCENT  
**&DiacriticalTilde;** = ~ SMALL TILDE  
**&diam;** = ⋄ DIAMOND OPERATOR  
**&Diamond;** = ⋄ DIAMOND OPERATOR  
**&diamond;** = ⋄ DIAMOND OPERATOR  
**&diamondsuit;** = ♠ BLACK DIAMOND SUIT  
**&diams;** = ♠ BLACK DIAMOND SUIT  
**&die;** = ¨ DIAERESIS  
**&DifferentialD;** = Ⓓ DOUBLE-STRUCK ITALIC SMALL D  
**&digamma;** = Ϝ GREEK SMALL LETTER DIGAMMA  
**&disin;** = ⋈ ELEMENT OF WITH LONG HORIZONTAL STROKE  
**&div;** = ÷ DIVISION SIGN  
**&divide;** = ÷ DIVISION SIGN

**&divideontimes;** =  $\div$  DIVISION TIMES  
**&divonx;** =  $\div$  DIVISION TIMES  
**&DJcy;** = **Ђ** CYRILLIC CAPITAL LETTER DJE  
**&djcy;** = **ђ** CYRILLIC SMALL LETTER DJE  
**&dlcorn;** = **└** BOTTOM LEFT CORNER  
**&dlcrop;** = **┐** BOTTOM LEFT CROP  
**&dollar;** = **\$** DOLLAR SIGN  
**&Dopf;** = **ⓓ** MATHEMATICAL DOUBLE-STRUCK CAPITAL D  
**&dopf;** = **ⓓ** MATHEMATICAL DOUBLE-STRUCK SMALL D  
**&Dot;** = **¨** DIAERESIS  
**&dot;** = **˙** DOT ABOVE  
**&DotDot;** = **⋰** COMBINING FOUR DOTS ABOVE  
**&doteq;** = **≈** APPROACHES THE LIMIT  
**&doteqdot;** = **≐** GEOMETRICALLY EQUAL TO  
**&DotEqual;** = **≈** APPROACHES THE LIMIT  
**&dotminus;** = **⋅** DOT MINUS  
**&dotplus;** = **⋅** DOT PLUS  
**&dotsquare;** = **◻** SQUARED DOT OPERATOR  
**&doublebarwedge;** = **⋈** PERSPECTIVE  
**&DoubleContourIntegral;** = **⧻** SURFACE INTEGRAL  
**&DoubleDot;** = **¨** DIAERESIS  
**&DoubleDownArrow;** = **⇓** DOWNWARDS DOUBLE ARROW  
**&DoubleLeftArrow;** = **⇐** LEFTWARDS DOUBLE ARROW  
**&DoubleLeftRightArrow;** = **⇔** LEFT RIGHT DOUBLE ARROW  
**&DoubleLeftTee;** = **⊐** VERTICAL BAR DOUBLE LEFT TURNSTILE  
**&DoubleLongLeftArrow;** = **⇚** LONG LEFTWARDS DOUBLE ARROW  
**&DoubleLongLeftRightArrow;** = **⇔** LONG LEFT RIGHT DOUBLE ARROW  
**&DoubleLongRightArrow;** = **⇛** LONG RIGHTWARDS DOUBLE ARROW  
**&DoubleRightArrow;** = **⇒** RIGHTWARDS DOUBLE ARROW  
**&DoubleRightTee;** = **⊑** TRUE  
**&DoubleUpArrow;** = **⇑** UPWARDS DOUBLE ARROW  
**&DoubleUpDownArrow;** = **⇕** UP DOWN DOUBLE ARROW  
**&DoubleVerticalBar;** = **∥** PARALLEL TO  
**&DownArrow;** = **↓** DOWNWARDS ARROW  
**&Downarrow;** = **⇓** DOWNWARDS DOUBLE ARROW  
**&downarrow;** = **↓** DOWNWARDS ARROW  
**&DownArrowBar;** = **⤵** DOWNWARDS ARROW TO BAR  
**&DownArrowUpArrow;** = **⇕** DOWNWARDS ARROW LEFTWARDS OF UPWARDS ARROW  
**&DownBreve;** = **˘** COMBINING INVERTED BREVE  
**&downdownarrows;** = **⇓** DOWNWARDS PAIRED ARROWS  
**&downharpoonleft;** = **⇩** DOWNWARDS HARPOON WITH BARB LEFTWARDS  
**&downharpoonright;** = **⇪** DOWNWARDS HARPOON WITH BARB RIGHTWARDS  
**&DownLeftRightVector;** = **⇩** LEFT BARB DOWN RIGHT BARB DOWN HARPOON  
**&DownLeftTeeVector;** = **⇩** LEFTWARDS HARPOON WITH BARB DOWN FROM BAR  
**&DownLeftVector;** = **⇩** LEFTWARDS HARPOON WITH BARB DOWNWARDS  
**&DownLeftVectorBar;** = **⇩** LEFTWARDS HARPOON WITH BARB DOWN TO BAR  
**&DownRightTeeVector;** = **⇩** RIGHTWARDS HARPOON WITH BARB DOWN FROM BAR  
**&DownRightVector;** = **⇩** RIGHTWARDS HARPOON WITH BARB DOWNWARDS  
**&DownRightVectorBar;** = **⇩** RIGHTWARDS HARPOON WITH BARB DOWN TO BAR  
**&DownTee;** = **⤴** DOWN TACK  
**&DownTeeArrow;** = **⇩** DOWNWARDS ARROW FROM BAR  
**&drbkarow;** = **↔** RIGHTWARDS TWO-HEADED TRIPLE DASH ARROW  
**&drcorn;** = **┘** BOTTOM RIGHT CORNER  
**&drcrop;** = **┑** BOTTOM RIGHT CROP  
**&Dscr;** = **ⓓ** MATHEMATICAL SCRIPT CAPITAL D  
**&dscr;** = **ⓓ** MATHEMATICAL SCRIPT SMALL D  
**&DScy;** = **Ѕ** CYRILLIC CAPITAL LETTER DZE  
**&dscy;** = **ѕ** CYRILLIC SMALL LETTER DZE  
**&dsol;** = **⍈** SOLIDUS WITH OVERBAR  
**&Dstrok;** = **ⓓ** LATIN CAPITAL LETTER D WITH STROKE  
**&dstrok;** = **ⓓ** LATIN SMALL LETTER D WITH STROKE  
**&dttdot;** = **⋱** DOWN RIGHT DIAGONAL ELLIPSIS  
**&dtri;** = **▾** WHITE DOWN-POINTING SMALL TRIANGLE  
**&dtrif;** = **▾** BLACK DOWN-POINTING SMALL TRIANGLE

**&duarr;** = ⤴ DOWNWARDS ARROW LEFTWARDS OF UPWARDS ARROW  
**&duhar;** = ⚊ DOWNWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT  
**&dwangle;** = ⚡ OBLIQUE ANGLE OPENING UP  
**&DZcy;** = Ѐ CYRILLIC CAPITAL LETTER DZHE  
**&dzcy;** = ы CYRILLIC SMALL LETTER DZHE  
**&dzigrarr;** = ⤴ LONG RIGHTWARDS SQUIGGLE ARROW  
**&Eacute;** = É LATIN CAPITAL LETTER E WITH ACUTE  
**&eacute;** = é LATIN SMALL LETTER E WITH ACUTE  
**&easter;** = ⚡ EQUALS WITH ASTERISK  
**&Ecaron;** = Ě LATIN CAPITAL LETTER E WITH CARON  
**&ecaron;** = ě LATIN SMALL LETTER E WITH CARON  
**&ecir;** = ⚡ RING IN EQUAL TO  
**&Ecirc;** = Ê LATIN CAPITAL LETTER E WITH CIRCUMFLEX  
**&ecirc;** = ê LATIN SMALL LETTER E WITH CIRCUMFLEX  
**&ecolon;** = ⚡ EQUALS COLON  
**&Ecy;** = Э CYRILLIC CAPITAL LETTER E  
**&ecy;** = э CYRILLIC SMALL LETTER E  
**&eDDot;** = ⚡ EQUALS SIGN WITH TWO DOTS ABOVE AND TWO DOTS BELOW  
**&Edot;** = Ę LATIN CAPITAL LETTER E WITH DOT ABOVE  
**&Edot;** = ÷ GEOMETRICALLY EQUAL TO  
**&edot;** = ˙ LATIN SMALL LETTER E WITH DOT ABOVE  
**&ee;** = e DOUBLE-STRUCK ITALIC SMALL E  
**&efDot;** = ⚡ APPROXIMATELY EQUAL TO OR THE IMAGE OF  
**&Efr;** = ⚡ MATHEMATICAL FRAKTUR CAPITAL E  
**&efr;** = ⚡ MATHEMATICAL FRAKTUR SMALL E  
**&eg;** = ⚡ DOUBLE-LINE EQUAL TO OR GREATER-THAN  
**&Egrave;** = È LATIN CAPITAL LETTER E WITH GRAVE  
**&egrave;** = è LATIN SMALL LETTER E WITH GRAVE  
**&egs;** = ⚡ SLANTED EQUAL TO OR GREATER-THAN  
**&egsdot;** = ⚡ SLANTED EQUAL TO OR GREATER-THAN WITH DOT INSIDE  
**&el;** = ⚡ DOUBLE-LINE EQUAL TO OR LESS-THAN  
**&Element;** = ∈ ELEMENT OF  
**&elinters;** = ⚡ ELECTRICAL INTERSECTION  
**&ell;** = ℓ SCRIPT SMALL L  
**&els;** = ⚡ SLANTED EQUAL TO OR LESS-THAN  
**&elsdot;** = ⚡ SLANTED EQUAL TO OR LESS-THAN WITH DOT INSIDE  
**&Emacr;** = Ę LATIN CAPITAL LETTER E WITH MACRON  
**&emacr;** = ˆ LATIN SMALL LETTER E WITH MACRON  
**&empty;** = ∅ EMPTY SET  
**&emptyset;** = ∅ EMPTY SET  
**&EmptySmallSquare;** = ◻ WHITE MEDIUM SQUARE  
**&emptyv;** = ∅ EMPTY SET  
**&EmptyVerySmallSquare;** = ◻ WHITE SMALL SQUARE  
**&emsp;** = EM SPACE  
**&emsp13;** = THREE-PER-EM SPACE  
**&emsp14;** = FOUR-PER-EM SPACE  
**&ENG;** = Ŋ LATIN CAPITAL LETTER ENG  
**&eng;** = ŋ LATIN SMALL LETTER ENG  
**&ensp;** = EN SPACE  
**&Eogon;** = Ę LATIN CAPITAL LETTER E WITH OGONEK  
**&eogon;** = ˆ LATIN SMALL LETTER E WITH OGONEK  
**&Eopf;** = ⚡ MATHEMATICAL DOUBLE-STRUCK CAPITAL E  
**&eopf;** = e MATHEMATICAL DOUBLE-STRUCK SMALL E  
**&epar;** = ⚡ EQUAL AND PARALLEL TO  
**&eparsl;** = ⚡ EQUALS SIGN AND SLANTED PARALLEL  
**&eplus;** = ⚡ EQUALS SIGN ABOVE PLUS SIGN  
**&epsi;** = ε GREEK SMALL LETTER EPSILON  
**&Epsilon;** = Ε GREEK CAPITAL LETTER EPSILON  
**&epsilon;** = ε GREEK SMALL LETTER EPSILON  
**&epsiv;** = ε GREEK LUNATE EPSILON SYMBOL  
**&eqcirc;** = ⚡ RING IN EQUAL TO  
**&eqcolon;** = ⚡ EQUALS COLON  
**&eqsim;** = ⚡ MINUS TILDE  
**&eqslantgtr;** = ⚡ SLANTED EQUAL TO OR GREATER-THAN



**&eqslantless;** =  $\leq$  SLANTED EQUAL TO OR LESS-THAN  
**&Equal;** =  $\equiv$  TWO CONSECUTIVE EQUALS SIGNS  
**&equals;** = = EQUALS SIGN  
**&EqualTilde;** =  $\approx$  MINUS TILDE  
**&quest;** =  $\stackrel{?}{=}$  QUESTIONED EQUAL TO  
**&Equilibrium;** =  $\rightleftarrows$  RIGHTWARDS HARPOON OVER LEFTWARDS HARPOON  
**&equiv;** =  $\equiv$  IDENTICAL TO  
**&equivDD;** =  $\equiv$  EQUIVALENT WITH FOUR DOTS ABOVE  
**&eqvparsl;** =  $\equiv$  IDENTICAL TO AND SLANTED PARALLEL  
**&erarr;** =  $\rightarrow$  EQUALS SIGN ABOVE RIGHTWARDS ARROW  
**&erDot;** =  $\doteq$  IMAGE OF OR APPROXIMATELY EQUAL TO  
**&Escr;** =  $\mathcal{E}$  SCRIPT CAPITAL E  
**&escr;** =  $\mathcal{e}$  SCRIPT SMALL E  
**&esdot;** =  $\dot{=}$  APPROACHES THE LIMIT  
**&Esim;** =  $\approx$  EQUALS SIGN ABOVE TILDE OPERATOR  
**&esim;** =  $\approx$  MINUS TILDE  
**&Eta;** =  $\text{H}$  GREEK CAPITAL LETTER ETA  
**&eta;** =  $\eta$  GREEK SMALL LETTER ETA  
**&ETH;** =  $\text{D}$  LATIN CAPITAL LETTER ETH  
**&eth;** =  $\text{d}$  LATIN SMALL LETTER ETH  
**&Euml;** =  $\text{E}$  LATIN CAPITAL LETTER E WITH DIAERESIS  
**&euml;** =  $\text{e}$  LATIN SMALL LETTER E WITH DIAERESIS  
**&euro;** =  $\text{€}$  EURO SIGN  
**&excl;** =  $!$  EXCLAMATION MARK  
**&exist;** =  $\exists$  THERE EXISTS  
**&Exists;** =  $\exists$  THERE EXISTS  
**&expectation;** =  $\mathcal{E}$  SCRIPT CAPITAL E  
**&ExponentialE;** =  $\mathcal{E}$  DOUBLE-STRUCK ITALIC SMALL E  
**&exponentiale;** =  $\mathcal{E}$  DOUBLE-STRUCK ITALIC SMALL E  
**&fallingdotseq;** =  $\fallingdotseq$  APPROXIMATELY EQUAL TO OR THE IMAGE OF  
**&Fcy;** =  $\text{Ф}$  CYRILLIC CAPITAL LETTER EF  
**&fcy;** =  $\text{ф}$  CYRILLIC SMALL LETTER EF  
**&female;** =  $\text{♀}$  FEMALE SIGN  
**&ffilig;** =  $\text{ffi}$  LATIN SMALL LIGATURE FFI  
**&fflig;** =  $\text{ff}$  LATIN SMALL LIGATURE FF  
**&ffllig;** =  $\text{ffl}$  LATIN SMALL LIGATURE FFL  
**&Ffr;** =  $\text{F}$  MATHEMATICAL FRAKTUR CAPITAL F  
**&ffr;** =  $\text{f}$  MATHEMATICAL FRAKTUR SMALL F  
**&filig;** =  $\text{fi}$  LATIN SMALL LIGATURE FI  
**&FilledSmallSquare;** =  $\blacksquare$  BLACK MEDIUM SQUARE  
**&FilledVerySmallSquare;** =  $\blacksquare$  BLACK SMALL SQUARE  
**&fjlig;** =  $\text{fj}$  *fj* ligature  
**&flat;** =  $\flat$  MUSIC FLAT SIGN  
**&fllig;** =  $\text{fl}$  LATIN SMALL LIGATURE FL  
**&fltns;** =  $\square$  WHITE PARALLELOGRAM  
**&fnof;** =  $\text{f}$  LATIN SMALL LETTER F WITH HOOK  
**&Fopf;** =  $\text{F}$  MATHEMATICAL DOUBLE-STRUCK CAPITAL F  
**&fopf;** =  $\text{f}$  MATHEMATICAL DOUBLE-STRUCK SMALL F  
**&ForAll;** =  $\forall$  FOR ALL  
**&forall;** =  $\forall$  FOR ALL  
**&fork;** =  $\pitchfork$  PITCHFORK  
**&forkv;** =  $\Downarrow$  ELEMENT OF OPENING DOWNWARDS  
**&Fouriertrf;** =  $\mathcal{F}$  SCRIPT CAPITAL F  
**&fpaintint;** =  $\int$  FINITE PART INTEGRAL  
**&frac12;** =  $\frac{1}{2}$  VULGAR FRACTION ONE HALF  
**&frac13;** =  $\frac{1}{3}$  VULGAR FRACTION ONE THIRD  
**&frac14;** =  $\frac{1}{4}$  VULGAR FRACTION ONE QUARTER  
**&frac15;** =  $\frac{1}{5}$  VULGAR FRACTION ONE FIFTH  
**&frac16;** =  $\frac{1}{6}$  VULGAR FRACTION ONE SIXTH  
**&frac18;** =  $\frac{1}{8}$  VULGAR FRACTION ONE EIGHTH  
**&frac23;** =  $\frac{2}{3}$  VULGAR FRACTION TWO THIRDS  
**&frac25;** =  $\frac{2}{5}$  VULGAR FRACTION TWO FIFTHS  
**&frac34;** =  $\frac{3}{4}$  VULGAR FRACTION THREE QUARTERS  
**&frac35;** =  $\frac{3}{5}$  VULGAR FRACTION THREE FIFTHS

**&frac38;** =  $\frac{3}{8}$  VULGAR FRACTION THREE EIGHTHS  
**&frac45;** =  $\frac{4}{5}$  VULGAR FRACTION FOUR FIFTHS  
**&frac56;** =  $\frac{5}{6}$  VULGAR FRACTION FIVE SIXTHS  
**&frac58;** =  $\frac{5}{8}$  VULGAR FRACTION FIVE EIGHTHS  
**&frac78;** =  $\frac{7}{8}$  VULGAR FRACTION SEVEN EIGHTHS  
**&frasl;** = / FRACTION SLASH  
**&frown;** = ☹ FROWN  
**&Fscr;** = ℱ SCRIPT CAPITAL F  
**&fscr;** = ℱ MATHEMATICAL SCRIPT SMALL F  
**&gacute;** = ǵ LATIN SMALL LETTER G WITH ACUTE  
**&Gamma;** = Γ GREEK CAPITAL LETTER GAMMA  
**&gamma;** = γ GREEK SMALL LETTER GAMMA  
**&Gammad;** = Ϝ GREEK LETTER DIGAMMA  
**&gammad;** = ϝ GREEK SMALL LETTER DIGAMMA  
**&gap;** = ≧ GREATER-THAN OR APPROXIMATE  
**&Gbreve;** = Ğ LATIN CAPITAL LETTER G WITH BREVE  
**&gbreve;** = ğ LATIN SMALL LETTER G WITH BREVE  
**&Gcedil;** = Ģ LATIN CAPITAL LETTER G WITH CEDILLA  
**&Gcirc;** = Ğ LATIN CAPITAL LETTER G WITH CIRCUMFLEX  
**&gcirc;** = ğ LATIN SMALL LETTER G WITH CIRCUMFLEX  
**&Gcy;** = Г CYRILLIC CAPITAL LETTER GHE  
**&gcy;** = г CYRILLIC SMALL LETTER GHE  
**&Gdot;** = Ġ LATIN CAPITAL LETTER G WITH DOT ABOVE  
**&gdot;** = ġ LATIN SMALL LETTER G WITH DOT ABOVE  
**&gE;** = ≧ GREATER-THAN OVER EQUAL TO  
**&ge;** = ≧ GREATER-THAN OR EQUAL TO  
**&gEl;** = ≧ GREATER-THAN ABOVE DOUBLE-LINE EQUAL ABOVE LESS-THAN  
**&gel;** = ≧ GREATER-THAN EQUAL TO OR LESS-THAN  
**&geq;** = ≧ GREATER-THAN OR EQUAL TO  
**&geqq;** = ≧ GREATER-THAN OVER EQUAL TO  
**&geqslant;** = ≧ GREATER-THAN OR SLANTED EQUAL TO  
**&ges;** = ≧ GREATER-THAN OR SLANTED EQUAL TO  
**&gescc;** = ≧ GREATER-THAN CLOSED BY CURVE ABOVE SLANTED EQUAL  
**&gesdot;** = ≧ GREATER-THAN OR SLANTED EQUAL TO WITH DOT INSIDE  
**&gesdoto;** = ≧ GREATER-THAN OR SLANTED EQUAL TO WITH DOT ABOVE  
**&gesdotol;** = ≧ GREATER-THAN OR SLANTED EQUAL TO WITH DOT ABOVE LEFT  
**&gesl;** = ≧ GREATER-THAN slanted EQUAL TO OR LESS-THAN  
**&gesles;** = ≧ GREATER-THAN ABOVE SLANTED EQUAL ABOVE LESS-THAN ABOVE SLANTED EQUAL  
**&Gfr;** = ℊ MATHEMATICAL FRAKTUR CAPITAL G  
**&gfr;** = ℋ MATHEMATICAL FRAKTUR SMALL G  
**&Gg;** = ≫ VERY MUCH GREATER-THAN  
**&gg;** = ≧ MUCH GREATER-THAN  
**&ggg;** = ≫ VERY MUCH GREATER-THAN  
**&gimel;** = ך GIMEL SYMBOL  
**&GJcy;** = Ѓ CYRILLIC CAPITAL LETTER GJE  
**&gjcy;** = ѓ CYRILLIC SMALL LETTER GJE  
**&gl;** = ≧ GREATER-THAN OR LESS-THAN  
**&gla;** = ≧ GREATER-THAN BESIDE LESS-THAN  
**&glE;** = ≧ GREATER-THAN ABOVE LESS-THAN ABOVE DOUBLE-LINE EQUAL  
**&glj;** = ≧ GREATER-THAN OVERLAPPING LESS-THAN  
**&gnap;** = ≧ GREATER-THAN AND NOT APPROXIMATE  
**&gnapprox;** = ≧ GREATER-THAN AND NOT APPROXIMATE  
**&gnE;** = ≧ GREATER-THAN BUT NOT EQUAL TO  
**&gne;** = ≧ GREATER-THAN AND SINGLE-LINE NOT EQUAL TO  
**&gneq;** = ≧ GREATER-THAN AND SINGLE-LINE NOT EQUAL TO  
**&gneqq;** = ≧ GREATER-THAN BUT NOT EQUAL TO  
**&gnsim;** = ≧ GREATER-THAN BUT NOT EQUIVALENT TO  
**&Gopf;** = ℔ MATHEMATICAL DOUBLE-STRUCK CAPITAL G  
**&gopf;** = ℕ MATHEMATICAL DOUBLE-STRUCK SMALL G  
**&grave;** = ` GRAVE ACCENT  
**&GreaterEqual;** = ≧ GREATER-THAN OR EQUAL TO  
**&GreaterEqualLess;** = ≧ GREATER-THAN EQUAL TO OR LESS-THAN  
**&GreaterFullEqual;** = ≧ GREATER-THAN OVER EQUAL TO  
**&GreaterGreater;** = ≫ DOUBLE NESTED GREATER-THAN

**&GreaterLess;** =  $\gtrless$  GREATER-THAN OR LESS-THAN  
**&GreaterSlantEqual;** =  $\gtrsim$  GREATER-THAN OR SLANTED EQUAL TO  
**&GreaterTilde;** =  $\gtrsim$  GREATER-THAN OR EQUIVALENT TO  
**&Gscr;** =  $\mathcal{G}$  MATHEMATICAL SCRIPT CAPITAL G  
**&gscr;** =  $\mathfrak{g}$  SCRIPT SMALL G  
**&gsim;** =  $\gtrsim$  GREATER-THAN OR EQUIVALENT TO  
**&gsime;** =  $\gtrsim$  GREATER-THAN ABOVE SIMILAR OR EQUAL  
**&gsiml;** =  $\gtrsim$  GREATER-THAN ABOVE SIMILAR ABOVE LESS-THAN  
**&GT;** =  $>$  GREATER-THAN SIGN  
**&Gt;** =  $\gg$  MUCH GREATER-THAN  
**&gt;** =  $>$  GREATER-THAN SIGN  
**&gtcc;** =  $\curvearrowright$  GREATER-THAN CLOSED BY CURVE  
**&gtcir;** =  $\textcircled{>}$  GREATER-THAN WITH CIRCLE INSIDE  
**&gtdot;** =  $\text{>}\cdot$  GREATER-THAN WITH DOT  
**&gtlPar;** =  $\text{⌈}$  DOUBLE LEFT ARC GREATER-THAN BRACKET  
**&gtquest;** =  $\text{?}\text{>}$  GREATER-THAN WITH QUESTION MARK ABOVE  
**&gtrapprox;** =  $\gtrapprox$  GREATER-THAN OR APPROXIMATE  
**&gtrarr;** =  $\text{>}\blacktriangleright$  GREATER-THAN ABOVE RIGHTWARDS ARROW  
**&gtrdot;** =  $\text{>}\cdot$  GREATER-THAN WITH DOT  
**&gtreqless;** =  $\gtrless$  GREATER-THAN EQUAL TO OR LESS-THAN  
**&gtreqqless;** =  $\gtrless$  GREATER-THAN ABOVE DOUBLE-LINE EQUAL ABOVE LESS-THAN  
**&gtrless;** =  $\gtrless$  GREATER-THAN OR LESS-THAN  
**&gtrsime;** =  $\gtrsim$  GREATER-THAN OR EQUIVALENT TO  
**&gvertneqq;** =  $\gtrsim$  GREATER-THAN BUT NOT EQUAL TO - with vertical stroke  
**&gvnE;** =  $\gtrsim$  GREATER-THAN BUT NOT EQUAL TO - with vertical stroke  
**&Hacek;** =  $\text{ˇ}$  CARON  
**&hairsp;** = HAIR SPACE  
**&half;** =  $\frac{1}{2}$  VULGAR FRACTION ONE HALF  
**&hamilt;** =  $\mathcal{H}$  SCRIPT CAPITAL H  
**&HARDcy;** =  $\text{Ҁ}$  CYRILLIC CAPITAL LETTER HARD SIGN  
**&hardcy;** =  $\text{ҁ}$  CYRILLIC SMALL LETTER HARD SIGN  
**&hArr;** =  $\Leftrightarrow$  LEFT RIGHT DOUBLE ARROW  
**&harr;** =  $\leftrightarrow$  LEFT RIGHT ARROW  
**&harrcir;** =  $\text{↔}$  LEFT RIGHT ARROW THROUGH SMALL CIRCLE  
**&harrw;** =  $\rightrightarrows$  LEFT RIGHT WAVE ARROW  
**&Hat;** =  $\text{^}$  CIRCUMFLEX ACCENT  
**&hbar;** =  $\hbar$  PLANCK CONSTANT OVER TWO PI  
**&Hcirc;** =  $\text{Ĥ}$  LATIN CAPITAL LETTER H WITH CIRCUMFLEX  
**&hcirc;** =  $\text{ĥ}$  LATIN SMALL LETTER H WITH CIRCUMFLEX  
**&hearts;** =  $\heartsuit$  BLACK HEART SUIT  
**&heartsuit;** =  $\heartsuit$  BLACK HEART SUIT  
**&hellip;** =  $\dots$  HORIZONTAL ELLIPSIS  
**&hercon;** =  $\text{⋈}$  HERMITIAN CONJUGATE MATRIX  
**&Hfr;** =  $\mathfrak{H}$  BLACK-LETTER CAPITAL H  
**&hfr;** =  $\mathfrak{h}$  MATHEMATICAL FRAKTUR SMALL H  
**&HilbertSpace;** =  $\mathcal{H}$  SCRIPT CAPITAL H  
**&hksearow;** =  $\text{↘}$  SOUTH EAST ARROW WITH HOOK  
**&hkswarow;** =  $\text{↙}$  SOUTH WEST ARROW WITH HOOK  
**&hoarr;** =  $\text{↔}$  LEFT RIGHT OPEN-HEADED ARROW  
**&homtht;** =  $\text{⤵}$  HOMOTHETIC  
**&hookleftarrow;** =  $\text{↵}$  LEFTWARDS ARROW WITH HOOK  
**&hookrightarrow;** =  $\text{↶}$  RIGHTWARDS ARROW WITH HOOK  
**&Hopf;** =  $\mathbb{H}$  DOUBLE-STRUCK CAPITAL H  
**&hopf;** =  $\mathbb{h}$  MATHEMATICAL DOUBLE-STRUCK SMALL H  
**&horbar;** =  $\text{—}$  HORIZONTAL BAR  
**&HorizontalLine;** =  $\text{—}$  BOX DRAWINGS LIGHT HORIZONTAL  
**&Hscr;** =  $\mathcal{H}$  SCRIPT CAPITAL H  
**&hscr;** =  $\mathfrak{h}$  MATHEMATICAL SCRIPT SMALL H  
**&hslash;** =  $\hbar$  PLANCK CONSTANT OVER TWO PI  
**&Hstrok;** =  $\text{H̄}$  LATIN CAPITAL LETTER H WITH STROKE  
**&hstrok;** =  $\text{h̄}$  LATIN SMALL LETTER H WITH STROKE  
**&HumpDownHump;** =  $\text{∩}$  GEOMETRICALLY EQUIVALENT TO  
**&HumpEqual;** =  $\text{≈}$  DIFFERENCE BETWEEN  
**&hybull;** =  $\text{—}$  HYPHEN BULLET

**&hyphen;** = - HYPHEN  
**&Iacute;** = Í LATIN CAPITAL LETTER I WITH ACUTE  
**&iacute;** = í LATIN SMALL LETTER I WITH ACUTE  
**&ic;** = INVISIBLE SEPARATOR  
**&Icirc;** = Î LATIN CAPITAL LETTER I WITH CIRCUMFLEX  
**&icirc;** = î LATIN SMALL LETTER I WITH CIRCUMFLEX  
**&Icy;** = И CYRILLIC CAPITAL LETTER I  
**&icy;** = и CYRILLIC SMALL LETTER I  
**&Idot;** = İ LATIN CAPITAL LETTER I WITH DOT ABOVE  
**&IEcy;** = Е CYRILLIC CAPITAL LETTER IE  
**&iecy;** = е CYRILLIC SMALL LETTER IE  
**&iexcl;** = ¡ INVERTED EXCLAMATION MARK  
**&if;** = ⇔ LEFT RIGHT DOUBLE ARROW  
**&lfr;** = ℣ BLACK-LETTER CAPITAL I  
**&ifr;** = ℱ MATHEMATICAL FRAKTUR SMALL I  
**&lgrave;** = Ì LATIN CAPITAL LETTER I WITH GRAVE  
**&igrave;** = ì LATIN SMALL LETTER I WITH GRAVE  
**&ii;** = *i* DOUBLE-STRUCK ITALIC SMALL I  
**&iiiint;** = ∫∫∫ QUADRUPLE INTEGRAL OPERATOR  
**&iiint;** = ∫∫∫ TRIPLE INTEGRAL  
**&iinfin;** = ∞ INCOMPLETE INFINITY  
**&iiota;** = ϰ TURNED GREEK SMALL LETTER IOTA  
**&IJlig;** = IJ LATIN CAPITAL LIGATURE IJ  
**&ijlig;** = ij LATIN SMALL LIGATURE IJ  
**&Im;** = ℣ BLACK-LETTER CAPITAL I  
**&Imacr;** = Ī LATIN CAPITAL LETTER I WITH MACRON  
**&imacr;** = ĭ LATIN SMALL LETTER I WITH MACRON  
**&image;** = ℣ BLACK-LETTER CAPITAL I  
**&ImaginaryI;** = *i* DOUBLE-STRUCK ITALIC SMALL I  
**&imagline;** = ℣ SCRIPT CAPITAL I  
**&imagpart;** = ℣ BLACK-LETTER CAPITAL I  
**&imath;** = *i* LATIN SMALL LETTER DOTLESS I  
**&imof;** = ∞ IMAGE OF  
**&imped;** = ℤ LATIN CAPITAL LETTER Z WITH STROKE  
**&Implies;** = ⇒ RIGHTWARDS DOUBLE ARROW  
**&in;** = ∈ ELEMENT OF  
**&incare;** = % CARE OF  
**&infin;** = ∞ INFINITY  
**&infintie;** = ∞ TIE OVER INFINITY  
**&inodot;** = *i* LATIN SMALL LETTER DOTLESS I  
**&Int;** = ∫∫ DOUBLE INTEGRAL  
**&int;** = ∫ INTEGRAL  
**&intcal;** = ℤ INTERCALATE  
**&integers;** = ℤ DOUBLE-STRUCK CAPITAL Z  
**&Integral;** = ∫ INTEGRAL  
**&intercal;** = ℤ INTERCALATE  
**&Intersection;** = ∩ N-ARY INTERSECTION  
**&intlarhk;** = ∫ INTEGRAL WITH LEFTWARDS ARROW WITH HOOK  
**&intprod;** = ∫ INTERIOR PRODUCT  
**&InvisibleComma;** = INVISIBLE SEPARATOR  
**&InvisibleTimes;** = INVISIBLE TIMES  
**&IOcy;** = Ё CYRILLIC CAPITAL LETTER IO  
**&iocy;** = ё CYRILLIC SMALL LETTER IO  
**&logon;** = Ĳ LATIN CAPITAL LETTER I WITH OGONEK  
**&iogon;** = ĳ LATIN SMALL LETTER I WITH OGONEK  
**&lopf;** = ℚ MATHEMATICAL DOUBLE-STRUCK CAPITAL I  
**&iopf;** = *i* MATHEMATICAL DOUBLE-STRUCK SMALL I  
**&lota;** = Ι GREEK CAPITAL LETTER IOTA  
**&iota;** = ι GREEK SMALL LETTER IOTA  
**&iprod;** = ∫ INTERIOR PRODUCT  
**&iquest;** = ¿ INVERTED QUESTION MARK  
**&lscr;** = ℣ SCRIPT CAPITAL I  
**&iscr;** = ℱ MATHEMATICAL SCRIPT SMALL I  
**&isin;** = ∈ ELEMENT OF









































**&isindot;** =  $\text{É}$  ELEMENT OF WITH DOT ABOVE  
**&isinE;** =  $\text{€}$  ELEMENT OF WITH TWO HORIZONTAL STROKES  
**&isins;** =  $\text{e}$  SMALL ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE  
**&isinsv;** =  $\text{€}$  ELEMENT OF WITH VERTICAL BAR AT END OF HORIZONTAL STROKE  
**&isinv;** =  $\text{€}$  ELEMENT OF  
**&it;** = INVISIBLE TIMES  
**&Itilde;** =  $\text{İ}$  LATIN CAPITAL LETTER I WITH TILDE  
**&itilde;** =  $\text{i}$  LATIN SMALL LETTER I WITH TILDE  
**&lukcy;** =  $\text{І}$  CYRILLIC CAPITAL LETTER BYELORUSSIAN-UKRAINIAN I  
**&iukcy;** =  $\text{і}$  CYRILLIC SMALL LETTER BYELORUSSIAN-UKRAINIAN I  
**&luml;** =  $\text{Ï}$  LATIN CAPITAL LETTER I WITH DIAERESIS  
**&iuml;** =  $\text{i}$  LATIN SMALL LETTER I WITH DIAERESIS  
**&jcirc;** =  $\text{Ĵ}$  LATIN CAPITAL LETTER J WITH CIRCUMFLEX  
**&jcirc;** =  $\text{j}$  LATIN SMALL LETTER J WITH CIRCUMFLEX  
**&jcy;** =  $\text{Й}$  CYRILLIC CAPITAL LETTER SHORT I  
**&jcy;** =  $\text{й}$  CYRILLIC SMALL LETTER SHORT I  
**&jfr;** =  $\text{J}$  MATHEMATICAL FRAKTUR CAPITAL J  
**&jfr;** =  $\text{j}$  MATHEMATICAL FRAKTUR SMALL J  
**&jmath;** =  $\text{j}$  LATIN SMALL LETTER DOTLESS J  
**&jopf;** =  $\text{J}$  MATHEMATICAL DOUBLE-STRUCK CAPITAL J  
**&jopf;** =  $\text{j}$  MATHEMATICAL DOUBLE-STRUCK SMALL J  
**&jscr;** =  $\text{J}$  MATHEMATICAL SCRIPT CAPITAL J  
**&jscr;** =  $\text{j}$  MATHEMATICAL SCRIPT SMALL J  
**&jsercy;** =  $\text{Ј}$  CYRILLIC CAPITAL LETTER JE  
**&jsercy;** =  $\text{j}$  CYRILLIC SMALL LETTER JE  
**&jukcy;** =  $\text{Є}$  CYRILLIC CAPITAL LETTER UKRAINIAN IE  
**&jukcy;** =  $\text{є}$  CYRILLIC SMALL LETTER UKRAINIAN IE  
**&Kappa;** =  $\text{Κ}$  GREEK CAPITAL LETTER KAPPA  
**&kappa;** =  $\text{κ}$  GREEK SMALL LETTER KAPPA  
**&kappav;** =  $\text{ϰ}$  GREEK KAPPA SYMBOL  
**&Kcedil;** =  $\text{Ķ}$  LATIN CAPITAL LETTER K WITH CEDILLA  
**&kcedil;** =  $\text{k}$  LATIN SMALL LETTER K WITH CEDILLA  
**&Kcy;** =  $\text{К}$  CYRILLIC CAPITAL LETTER KA  
**&kcy;** =  $\text{к}$  CYRILLIC SMALL LETTER KA  
**&Kfr;** =  $\text{K}$  MATHEMATICAL FRAKTUR CAPITAL K  
**&kfr;** =  $\text{k}$  MATHEMATICAL FRAKTUR SMALL K  
**&kgreen;** =  $\text{ƙ}$  LATIN SMALL LETTER KRA  
**&KHcy;** =  $\text{Х}$  CYRILLIC CAPITAL LETTER HA  
**&khcy;** =  $\text{x}$  CYRILLIC SMALL LETTER HA  
**&KJcy;** =  $\text{Ќ}$  CYRILLIC CAPITAL LETTER KJE  
**&kjcy;** =  $\text{ќ}$  CYRILLIC SMALL LETTER KJE  
**&Kopf;** =  $\text{K}$  MATHEMATICAL DOUBLE-STRUCK CAPITAL K  
**&kopf;** =  $\text{k}$  MATHEMATICAL DOUBLE-STRUCK SMALL K  
**&Kscr;** =  $\text{K}$  MATHEMATICAL SCRIPT CAPITAL K  
**&kscr;** =  $\text{k}$  MATHEMATICAL SCRIPT SMALL K  
**&lAarr;** =  $\text{⇐}$  LEFTWARDS TRIPLE ARROW  
**&Lacute;** =  $\text{Ĺ}$  LATIN CAPITAL LETTER L WITH ACUTE  
**&lacute;** =  $\text{l}$  LATIN SMALL LETTER L WITH ACUTE  
**&laemptyv;** =  $\text{∅}$  EMPTY SET WITH LEFT ARROW ABOVE  
**&lagran;** =  $\text{ℒ}$  SCRIPT CAPITAL L  
**&Lambda;** =  $\text{Λ}$  GREEK CAPITAL LETTER LAMDA  
**&lambda;** =  $\text{λ}$  GREEK SMALL LETTER LAMDA  
**&Lang;** =  $\text{⟨}$  MATHEMATICAL LEFT DOUBLE ANGLE BRACKET  
**&lang;** =  $\text{⟨}$  MATHEMATICAL LEFT ANGLE BRACKET  
**&langd;** =  $\text{⋈}$  LEFT ANGLE BRACKET WITH DOT  
**&langle;** =  $\text{⟨}$  MATHEMATICAL LEFT ANGLE BRACKET  
**&lap;** =  $\text{≲}$  LESS-THAN OR APPROXIMATE  
**&Laplacetrif;** =  $\text{ℒ}$  SCRIPT CAPITAL L  
**&laquo;** =  $\text{«}$  LEFT-POINTING DOUBLE ANGLE QUOTATION MARK  
**&Larr;** =  $\text{⇐}$  LEFTWARDS TWO HEADED ARROW  
**&lArr;** =  $\text{⇐}$  LEFTWARDS DOUBLE ARROW  
**&larr;** =  $\text{←}$  LEFTWARDS ARROW  
**&larrb;** =  $\text{↔}$  LEFTWARDS ARROW TO BAR  
**&larrbfs;** =  $\text{⬅}$  LEFTWARDS ARROW FROM BAR TO BLACK DIAMOND

**&larrfs;** = LEFTWARDS ARROW TO BLACK DIAMOND  
**&larrhk;** = LEFTWARDS ARROW WITH HOOK  
**&larrlp;** = LEFTWARDS ARROW WITH LOOP  
**&larrpl;** = LEFT-SIDE ARC ANTICLOCKWISE ARROW  
**&larrsim;** = LEFTWARDS ARROW ABOVE TILDE OPERATOR  
**&larrtl;** = LEFTWARDS ARROW WITH TAIL  
**&lat;** = LARGER THAN  
**&lAtail;** = LEFTWARDS DOUBLE ARROW-TAIL  
**&latail;** = LEFTWARDS ARROW-TAIL  
**&late;** = LARGER THAN OR EQUAL TO  
**&lates;** = LARGER THAN OR slanted EQUAL  
**&lBarr;** = LEFTWARDS TRIPLE DASH ARROW  
**&lbarr;** = LEFTWARDS DOUBLE DASH ARROW  
**&lbbrk;** = { LIGHT LEFT TORTOISE SHELL BRACKET ORNAMENT  
**&lbrace;** = { LEFT CURLY BRACKET  
**&lbrack;** = [ LEFT SQUARE BRACKET  
**&lbrke;** = LEFT SQUARE BRACKET WITH UNDERBAR  
**&lbrksld;** = LEFT SQUARE BRACKET WITH TICK IN BOTTOM CORNER  
**&lbrkslu;** = LEFT SQUARE BRACKET WITH TICK IN TOP CORNER  
**&Lcaron;** = Ľ LATIN CAPITAL LETTER L WITH CARON  
**&lcaron;** = ľ LATIN SMALL LETTER L WITH CARON  
**&Lcedil;** = Ļ LATIN CAPITAL LETTER L WITH CEDILLA  
**&lcedil;** = ļ LATIN SMALL LETTER L WITH CEDILLA  
**&lceil;** = ⌈ LEFT CEILING  
**&lcub;** = { LEFT CURLY BRACKET  
**&Lcy;** = Л CYRILLIC CAPITAL LETTER EL  
**&lcy;** = л CYRILLIC SMALL LETTER EL  
**&ldca;** = ARROW POINTING DOWNWARDS THEN CURVING LEFTWARDS  
**&ldquo;** = “ LEFT DOUBLE QUOTATION MARK  
**&ldquor;** = „ DOUBLE LOW-9 QUOTATION MARK  
**&ldrdrhar;** = LEFTWARDS HARPOON WITH BARB DOWN ABOVE RIGHTWARDS HARPOON WITH BARB DOWN  
**&ldrushar;** = LEFT BARB DOWN RIGHT BARB UP HARPOON  
**&ldsh;** = DOWNWARDS ARROW WITH TIP LEFTWARDS  
**&IE;** = ≦ LESS-THAN OVER EQUAL TO  
**&le;** = ≤ LESS-THAN OR EQUAL TO  
**&LeftAngleBracket;** = ⟨ MATHEMATICAL LEFT ANGLE BRACKET  
**&LeftArrow;** = ← LEFTWARDS ARROW  
**&Leftarrow;** = ⇐ LEFTWARDS DOUBLE ARROW  
**&leftarrow;** = ← LEFTWARDS ARROW  
**&LeftArrowBar;** = ⇐ LEFTWARDS ARROW TO BAR  
**&LeftArrowRightArrow;** = ⇔ LEFTWARDS ARROW OVER RIGHTWARDS ARROW  
**&leftarrowtail;** = ↙ LEFTWARDS ARROW WITH TAIL  
**&LeftCeiling;** = ⌈ LEFT CEILING  
**&LeftDoubleBracket;** = ⌊ MATHEMATICAL LEFT WHITE SQUARE BRACKET  
**&LeftDownTeeVector;** = DOWNWARDS HARPOON WITH BARB LEFT FROM BAR  
**&LeftDownVector;** = ↓ DOWNWARDS HARPOON WITH BARB LEFTWARDS  
**&LeftDownVectorBar;** = DOWNWARDS HARPOON WITH BARB LEFT TO BAR  
**&LeftFloor;** = ⌋ LEFT FLOOR  
**&leftharpoondown;** = ⇩ LEFTWARDS HARPOON WITH BARB DOWNWARDS  
**&leftharpoonup;** = ⇨ LEFTWARDS HARPOON WITH BARB UPWARDS  
**&leftleftarrows;** = ⇚ LEFTWARDS PAIRED ARROWS  
**&LeftRightArrow;** = ⇔ LEFT RIGHT ARROW  
**&Leftrightarrow;** = ⇔ LEFT RIGHT DOUBLE ARROW  
**&leftrightharpoons;** = ⇔ LEFTWARDS ARROW OVER RIGHTWARDS HARPOON  
**&leftrightsquigarrow;** = ⇨ LEFT RIGHT WAVE ARROW  
**&LeftRightVector;** = LEFT BARB UP RIGHT BARB UP HARPOON  
**&LeftTee;** = ⊣ LEFT TACK  
**&LeftTeeArrow;** = ⇐ LEFTWARDS ARROW FROM BAR  
**&LeftTeeVector;** = LEFTWARDS HARPOON WITH BARB UP FROM BAR  
**&leftthreetimes;** = ⋈ LEFT SEMIDIRECT PRODUCT  
**&LeftTriangle;** = ◁ NORMAL SUBGROUP OF

**&LeftTriangleBar;** =  LEFT TRIANGLE BESIDE VERTICAL BAR  
**&LeftTriangleEqual;** =  NORMAL SUBGROUP OF OR EQUAL TO  
**&LeftUpDownVector;** =  UP BARB LEFT DOWN BARB LEFT HARPOON  
**&LeftUpTeeVector;** =  UPWARDS HARPOON WITH BARB LEFT FROM BAR  
**&LeftUpVector;** =  UPWARDS HARPOON WITH BARB LEFTWARDS  
**&LeftUpVectorBar;** =  UPWARDS HARPOON WITH BARB LEFT TO BAR  
**&LeftVector;** =  LEFTWARDS HARPOON WITH BARB UPWARDS  
**&LeftVectorBar;** =  LEFTWARDS HARPOON WITH BARB UP TO BAR  
**&IEg;** =  LESS-THAN ABOVE DOUBLE-LINE EQUAL ABOVE GREATER-THAN  
**&leg;** =  LESS-THAN EQUAL TO OR GREATER-THAN  
**&leq;** =  LESS-THAN OR EQUAL TO  
**&leqq;** =  LESS-THAN OVER EQUAL TO  
**&leqslant;** =  LESS-THAN OR SLANTED EQUAL TO  
**&les;** =  LESS-THAN OR SLANTED EQUAL TO  
**&lescc;** =  LESS-THAN CLOSED BY CURVE ABOVE SLANTED EQUAL  
**&lesdot;** =  LESS-THAN OR SLANTED EQUAL TO WITH DOT INSIDE  
**&lesdoto;** =  LESS-THAN OR SLANTED EQUAL TO WITH DOT ABOVE  
**&lesdotor;** =  LESS-THAN OR SLANTED EQUAL TO WITH DOT ABOVE RIGHT  
**&lesg;** =  LESS-THAN slanted EQUAL TO OR GREATER-THAN  
**&lesges;** =  LESS-THAN ABOVE SLANTED EQUAL ABOVE GREATER-THAN ABOVE SLANTED EQUAL  
**&lessapprox;** =  LESS-THAN OR APPROXIMATE  
**&lessdot;** =  LESS-THAN WITH DOT  
**&lesseqgtr;** =  LESS-THAN EQUAL TO OR GREATER-THAN  
**&lesseqqgtr;** =  LESS-THAN ABOVE DOUBLE-LINE EQUAL ABOVE GREATER-THAN  
**&LessEqualGreater;** =  LESS-THAN EQUAL TO OR GREATER-THAN  
**&LessFullEqual;** =  LESS-THAN OVER EQUAL TO  
**&LessGreater;** =  LESS-THAN OR GREATER-THAN  
**&lessgtr;** =  LESS-THAN OR GREATER-THAN  
**&LessLess;** =  DOUBLE NESTED LESS-THAN  
**&lesssim;** =  LESS-THAN OR EQUIVALENT TO  
**&LessSlantEqual;** =  LESS-THAN OR SLANTED EQUAL TO  
**&LessTilde;** =  LESS-THAN OR EQUIVALENT TO  
**&lfisht;** =  LEFT FISH TAIL  
**&lfloor;** =  LEFT FLOOR  
**&Lfr;** =  MATHEMATICAL FRAKTUR CAPITAL L  
**&lfr;** =  MATHEMATICAL FRAKTUR SMALL L  
**&lg;** =  LESS-THAN OR GREATER-THAN  
**&lgE;** =  LESS-THAN ABOVE GREATER-THAN ABOVE DOUBLE-LINE EQUAL  
**&lHar;** =  LEFTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB DOWN  
**&lhard;** =  LEFTWARDS HARPOON WITH BARB DOWNWARDS  
**&lharu;** =  LEFTWARDS HARPOON WITH BARB UPWARDS  
**&lharul;** =  LEFTWARDS HARPOON WITH BARB UP ABOVE LONG DASH  
**&lhblk;** =  LOWER HALF BLOCK  
**&Ljcy;** =  CYRILLIC CAPITAL LETTER LJE  
**&ljcy;** =  CYRILLIC SMALL LETTER LJE  
**&Ll;** =  VERY MUCH LESS-THAN  
**&ll;** =  MUCH LESS-THAN  
**&llarr;** =  LEFTWARDS PAIRED ARROWS  
**&llcorner;** =  BOTTOM LEFT CORNER  
**&Lleftarrow;** =  LEFTWARDS TRIPLE ARROW  
**&llhard;** =  LEFTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH  
**&lltri;** =  LOWER LEFT TRIANGLE  
**&Lmidot;** =  LATIN CAPITAL LETTER L WITH MIDDLE DOT  
**&lmidot;** =  LATIN SMALL LETTER L WITH MIDDLE DOT  
**&lmoust;** =  UPPER LEFT OR LOWER RIGHT CURLY BRACKET SECTION  
**&lmoustache;** =  UPPER LEFT OR LOWER RIGHT CURLY BRACKET SECTION  
**&lnap;** =  LESS-THAN AND NOT APPROXIMATE  
**&lnapprox;** =  LESS-THAN AND NOT APPROXIMATE  
**&lnE;** =  LESS-THAN BUT NOT EQUAL TO  
**&lne;** =  LESS-THAN AND SINGLE-LINE NOT EQUAL TO  
**&lneq;** =  LESS-THAN AND SINGLE-LINE NOT EQUAL TO  
**&lneqq;** =  LESS-THAN BUT NOT EQUAL TO  
**&lnsim;** =  LESS-THAN BUT NOT EQUIVALENT TO  
**&loang;** =  MATHEMATICAL LEFT WHITE TORTOISE SHELL BRACKET

**&loarr;** =  $\leftarrow$  LEFTWARDS OPEN-HEADED ARROW  
**&lobrk;** =  $\llbracket$  MATHEMATICAL LEFT WHITE SQUARE BRACKET  
**&LongLeftArrow;** =  $\longleftarrow$  LONG LEFTWARDS ARROW  
**&Longleftarrow;** =  $\Lleftarrow$  LONG LEFTWARDS DOUBLE ARROW  
**&longleftarrow;** =  $\leftarrow$  LONG LEFTWARDS ARROW  
**&LongLeftRightArrow;** =  $\longleftrightarrow$  LONG LEFT RIGHT ARROW  
**&Longlefttrightarrow;** =  $\Lleftrightarrow$  LONG LEFT RIGHT DOUBLE ARROW  
**&longlefttrightarrow;** =  $\leftrightarrow$  LONG LEFT RIGHT ARROW  
**&longmapsto;** =  $\longmapsto$  LONG RIGHTWARDS ARROW FROM BAR  
**&LongRightArrow;** =  $\longrightarrow$  LONG RIGHTWARDS ARROW  
**&Longrightarrow;** =  $\Rrightarrow$  LONG RIGHTWARDS DOUBLE ARROW  
**&longrightarrow;** =  $\rightarrow$  LONG RIGHTWARDS ARROW  
**&looparrowleft;** =  $\looparrowleft$  LEFTWARDS ARROW WITH LOOP  
**&looparrowright;** =  $\looparrowright$  RIGHTWARDS ARROW WITH LOOP  
**&lopar;** =  $\lpar$  LEFT WHITE PARENTHESIS  
**&Lopf;** =  $\mathbb{L}$  MATHEMATICAL DOUBLE-STRUCK CAPITAL L  
**&lopf;** =  $\mathbb{l}$  MATHEMATICAL DOUBLE-STRUCK SMALL L  
**&loplus;** =  $\oplus$  PLUS SIGN IN LEFT HALF CIRCLE  
**&lotimes;** =  $\otimes$  MULTIPLICATION SIGN IN LEFT HALF CIRCLE  
**&lowast;** =  $*$  ASTERISK OPERATOR  
**&lowbar;** =  $\_$  LOW LINE  
**&LowerLeftArrow;** =  $\swarrow$  SOUTH WEST ARROW  
**&LowerRightArrow;** =  $\searrow$  SOUTH EAST ARROW  
**&loz;** =  $\diamond$  LOZENGE  
**&lozenge;** =  $\diamond$  LOZENGE  
**&lozf;** =  $\blacklozenge$  BLACK LOZENGE  
**&lpar;** =  $($  LEFT PARENTHESIS  
**&lparlt;** =  $\lparlt$  LEFT ARC LESS-THAN BRACKET  
**&lrarr;** =  $\leftrightarrow$  LEFTWARDS ARROW OVER RIGHTWARDS ARROW  
**&lrcorner;** =  $\lrcorner$  BOTTOM RIGHT CORNER  
**&lrhar;** =  $\lrharpoonleft$  LEFTWARDS HARPOON OVER RIGHTWARDS HARPOON  
**&lrhard;** =  $\lRrightarrow$  RIGHTWARDS HARPOON WITH BARB DOWN BELOW LONG DASH  
**&lrm;** =  $\text{LR}$  LEFT-TO-RIGHT MARK  
**&ltri;** =  $\blacktriangle$  RIGHT TRIANGLE  
**&lsaquo;** =  $\langle$  SINGLE LEFT-POINTING ANGLE QUOTATION MARK  
**&Lscr;** =  $\mathcal{L}$  SCRIPT CAPITAL L  
**&lscr;** =  $\mathcal{l}$  MATHEMATICAL SCRIPT SMALL L  
**&Lsh;** =  $\Uparrow$  UPWARDS ARROW WITH TIP LEFTWARDS  
**&lsh;** =  $\uparrow$  UPWARDS ARROW WITH TIP LEFTWARDS  
**&lsim;** =  $\lesssim$  LESS-THAN OR EQUIVALENT TO  
**&lsime;** =  $\lesseqgtr$  LESS-THAN ABOVE SIMILAR OR EQUAL  
**&lsimg;** =  $\lesseqgtr$  LESS-THAN ABOVE SIMILAR ABOVE GREATER-THAN  
**&lsqb;** =  $\lbracket$  LEFT SQUARE BRACKET  
**&lsquo;** =  $'$  LEFT SINGLE QUOTATION MARK  
**&lsquor;** =  $\text{,}$  SINGLE LOW-9 QUOTATION MARK  
**&Lstrok;** =  $\text{L}$  LATIN CAPITAL LETTER L WITH STROKE  
**&lstrok;** =  $\text{l}$  LATIN SMALL LETTER L WITH STROKE  
**&LT;** =  $<$  LESS-THAN SIGN  
**&Lt;** =  $\ll$  MUCH LESS-THAN  
**&lt;** =  $<$  LESS-THAN SIGN  
**&ltcc;** =  $\lrcorner$  LESS-THAN CLOSED BY CURVE  
**&ltcir;** =  $\llcorner$  LESS-THAN WITH CIRCLE INSIDE  
**&ltidot;** =  $\llcorner$  LESS-THAN WITH DOT  
**&ltthree;** =  $\times$  LEFT SEMIDIRECT PRODUCT  
**&ltimes;** =  $\times$  LEFT NORMAL FACTOR SEMIDIRECT PRODUCT  
**&ltlarr;** =  $\lllarr$  LESS-THAN ABOVE LEFTWARDS ARROW  
**&ltquest;** =  $\llcorner$  LESS-THAN WITH QUESTION MARK ABOVE  
**&ltri;** =  $\triangleleft$  WHITE LEFT-POINTING SMALL TRIANGLE  
**&ltrie;** =  $\trianglelefteq$  NORMAL SUBGROUP OF OR EQUAL TO  
**&ltrif;** =  $\blacktriangleleft$  BLACK LEFT-POINTING SMALL TRIANGLE  
**&ltrPar;** =  $\lpar$  DOUBLE RIGHT ARC LESS-THAN BRACKET  
**&lurdshar;** =  $\lRrightarrow$  LEFT BARB UP RIGHT BARB DOWN HARPOON  
**&luruhar;** =  $\lRrightarrow$  LEFTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB UP  
**&vertneqq;** =  $\nlessgtr$  LESS-THAN BUT NOT EQUAL TO - with vertical stroke



**&lvnE;** =  LESS-THAN BUT NOT EQUAL TO - with vertical stroke  
**&macr;** =  MACRON  
**&male;** =  MALE SIGN  
**&malt;** =  MALTESE CROSS  
**&maltese;** =  MALTESE CROSS  
**&Map;** =  RIGHTWARDS TWO-HEADED ARROW FROM BAR  
**&map;** =  RIGHTWARDS ARROW FROM BAR  
**&mapsto;** =  RIGHTWARDS ARROW FROM BAR  
**&mapstodown;** =  DOWNWARDS ARROW FROM BAR  
**&mapstoleft;** =  LEFTWARDS ARROW FROM BAR  
**&mapstoup;** =  UPWARDS ARROW FROM BAR  
**&marker;** =  BLACK VERTICAL RECTANGLE  
**&mcomma;** =  MINUS SIGN WITH COMMA ABOVE  
**&Mcy;** =  CYRILLIC CAPITAL LETTER EM  
**&mcy;** =  CYRILLIC SMALL LETTER EM  
**&mdash;** =  EM DASH  
**&mDDot;** =  GEOMETRIC PROPORTION  
**&measuredangle;** =  MEASURED ANGLE  
**&MediumSpace;** = MEDIUM MATHEMATICAL SPACE  
**&Mellinfr;** =  SCRIPT CAPITAL M  
**&Mfr;** =  MATHEMATICAL FRAKTUR CAPITAL M  
**&mfr;** =  MATHEMATICAL FRAKTUR SMALL M  
**&mho;** =  INVERTED OHM SIGN  
**&micro;** =  MICRO SIGN  
**&mid;** =  DIVIDES  
**&midast;** =  ASTERISK  
**&midcir;** =  VERTICAL LINE WITH CIRCLE BELOW  
**&middot;** =  MIDDLE DOT  
**&minus;** =  MINUS SIGN  
**&minusb;** =  SQUARED MINUS  
**&minusd;** =  DOT MINUS  
**&minusdu;** =  MINUS SIGN WITH DOT BELOW  
**&MinusPlus;** =  MINUS-OR-PLUS SIGN  
**&mlcp;** =  TRANSVERSAL INTERSECTION  
**&mldr;** =  HORIZONTAL ELLIPSIS  
**&mnplus;** =  MINUS-OR-PLUS SIGN  
**&models;** =  MODELS  
**&Mopf;** =  MATHEMATICAL DOUBLE-STRUCK CAPITAL M  
**&mopf;** =  MATHEMATICAL DOUBLE-STRUCK SMALL M  
**&mp;** =  MINUS-OR-PLUS SIGN  
**&Mscr;** =  SCRIPT CAPITAL M  
**&mscr;** =  MATHEMATICAL SCRIPT SMALL M  
**&mstpos;** =  INVERTED LAZY S  
**&Mu;** =  GREEK CAPITAL LETTER MU  
**&mu;** =  GREEK SMALL LETTER MU  
**&multimap;** =  MULTIMAP  
**&mumap;** =  MULTIMAP  
**&nabla;** =  NABLA  
**&Nacute;** =  LATIN CAPITAL LETTER N WITH ACUTE  
**&nacute;** =  LATIN SMALL LETTER N WITH ACUTE  
**&ng;** =  ANGLE with vertical line  
**&nap;** =  NOT ALMOST EQUAL TO  
**&napE;** =  APPROXIMATELY EQUAL OR EQUAL TO with slash  
**&napid;** =  TRIPLE TILDE with slash  
**&napos;** =  LATIN SMALL LETTER N PRECEDED BY APOSTROPHE  
**&napprox;** =  NOT ALMOST EQUAL TO  
**&natur;** =  MUSIC NATURAL SIGN  
**&natural;** =  MUSIC NATURAL SIGN  
**&natural;** =  DOUBLE-STRUCK CAPITAL N  
**&nbsp;** = NO-BREAK SPACE  
**&nbump;** =  GEOMETRICALLY EQUIVALENT TO with slash  
**&nbumpe;** =  DIFFERENCE BETWEEN with slash  
**&ncap;** =  INTERSECTION WITH OVERBAR  
**&Ncaron;** =  LATIN CAPITAL LETTER N WITH CARON

**&ncaron;** =  LATIN SMALL LETTER N WITH CARON  
**&Ncedil;** =  LATIN CAPITAL LETTER N WITH CEDILLA  
**&ncedil;** =  LATIN SMALL LETTER N WITH CEDILLA  
**&ncong;** =  NEITHER APPROXIMATELY NOR ACTUALLY EQUAL TO  
**&ncongdot;** =  CONGRUENT WITH DOT ABOVE with slash  
**&ncup;** =  UNION WITH OVERBAR  
**&Ncy;** =  CYRILLIC CAPITAL LETTER EN  
**&ncy;** =  CYRILLIC SMALL LETTER EN  
**&ndash;** = - EN DASH  
**&ne;** =  NOT EQUAL TO  
**&nearhk;** =  NORTH EAST ARROW WITH HOOK  
**&neArr;** =  NORTH EAST DOUBLE ARROW  
**&nearr;** =  NORTH EAST ARROW  
**&nearrow;** =  NORTH EAST ARROW  
**&nedot;** =  APPROACHES THE LIMIT with slash  
**&NegativeMediumSpace;** = ZERO WIDTH SPACE  
**&NegativeThickSpace;** = ZERO WIDTH SPACE  
**&NegativeThinSpace;** = ZERO WIDTH SPACE  
**&NegativeVeryThinSpace;** = ZERO WIDTH SPACE  
**&nequiv;** =  NOT IDENTICAL TO  
**&nesear;** =  NORTH EAST ARROW AND SOUTH EAST ARROW  
**&nesim;** =  MINUS TILDE with slash  
**&NestedGreaterGreater;** =  MUCH GREATER-THAN  
**&NestedLessLess;** =  MUCH LESS-THAN  
**&NewLine;** = LINE FEED (LF)  
**&nexist;** =  THERE DOES NOT EXIST  
**&nexists;** =  THERE DOES NOT EXIST  
**&Nfr;** =  MATHEMATICAL FRAKTUR CAPITAL N  
**&nfr;** =  MATHEMATICAL FRAKTUR SMALL N  
**&ngE;** =  GREATER-THAN OVER EQUAL TO with slash  
**&nge;** =  NEITHER GREATER-THAN NOR EQUAL TO  
**&ngeq;** =  NEITHER GREATER-THAN NOR EQUAL TO  
**&ngeqq;** =  GREATER-THAN OVER EQUAL TO with slash  
**&ngeqslant;** =  GREATER-THAN OR SLANTED EQUAL TO with slash  
**&nges;** =  GREATER-THAN OR SLANTED EQUAL TO with slash  
**&nGg;** =  VERY MUCH GREATER-THAN with slash  
**&nngsim;** =  NEITHER GREATER-THAN NOR EQUIVALENT TO  
**&nGt;** =  MUCH GREATER THAN with vertical line  
**&ngt;** =  NOT GREATER-THAN  
**&ngtr;** =  NOT GREATER-THAN  
**&nGtv;** =  MUCH GREATER THAN with slash  
**&nhArr;** =  LEFT RIGHT DOUBLE ARROW WITH STROKE  
**&nharr;** =  LEFT RIGHT ARROW WITH STROKE  
**&nhpar;** =  PARALLEL WITH HORIZONTAL STROKE  
**&ni;** =  CONTAINS AS MEMBER  
**&nis;** =  SMALL CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE  
**&nisd;** =  CONTAINS WITH LONG HORIZONTAL STROKE  
**&niv;** =  CONTAINS AS MEMBER  
**&NJcy;** =  CYRILLIC CAPITAL LETTER NJE  
**&njcy;** =  CYRILLIC SMALL LETTER NJE  
**&nlArr;** =  LEFTWARDS DOUBLE ARROW WITH STROKE  
**&nlarr;** =  LEFTWARDS ARROW WITH STROKE  
**&nldr;** = .. TWO DOT LEADER  
**&nle;** =  LESS-THAN OVER EQUAL TO with slash  
**&nle;** =  NEITHER LESS-THAN NOR EQUAL TO  
**&nLeftarrow;** =  LEFTWARDS DOUBLE ARROW WITH STROKE  
**&nleftarrow;** =  LEFTWARDS ARROW WITH STROKE  
**&nLeftrightarrow;** =  LEFT RIGHT DOUBLE ARROW WITH STROKE  
**&nleftrightarrow;** =  LEFT RIGHT ARROW WITH STROKE  
**&nleq;** =  NEITHER LESS-THAN NOR EQUAL TO  
**&nleqq;** =  LESS-THAN OVER EQUAL TO with slash  
**&nleqslant;** =  LESS-THAN OR SLANTED EQUAL TO with slash  
**&nles;** =  LESS-THAN OR SLANTED EQUAL TO with slash  
**&nless;** =  NOT LESS-THAN

**&nLl;** =  $\lll$  VERY MUCH LESS-THAN with slash  
**&nlsim;** =  $\nlessdot$  NEITHER LESS-THAN NOR EQUIVALENT TO  
**&nLt;** =  $\llcorner$  MUCH LESS THAN with vertical line  
**&nlt;** =  $\lessdot$  NOT LESS-THAN  
**&nlttri;** =  $\nlessdot$  NOT NORMAL SUBGROUP OF  
**&nlttrie;** =  $\nlessdot$  NOT NORMAL SUBGROUP OF OR EQUAL TO  
**&nLtv;** =  $\lll$  MUCH LESS THAN with slash  
**&nmid;** =  $\nmid$  DOES NOT DIVIDE  
**&NoBreak;** = WORD JOINER  
**&NonBreakingSpace;** = NO-BREAK SPACE  
**&Nopf;** =  $\mathbb{N}$  DOUBLE-STRUCK CAPITAL N  
**&nopf;** =  $\mathfrak{n}$  MATHEMATICAL DOUBLE-STRUCK SMALL N  
**&Not;** =  $\neg$  DOUBLE STROKE NOT SIGN  
**&not;** =  $\neg$  NOT SIGN  
**&NotCongruent;** =  $\ncong$  NOT IDENTICAL TO  
**&NotCupCap;** =  $\nlessdot$  NOT EQUIVALENT TO  
**&NotDoubleVerticalBar;** =  $\nparallel$  NOT PARALLEL TO  
**&NotElement;** =  $\notin$  NOT AN ELEMENT OF  
**&NotEqual;** =  $\neq$  NOT EQUAL TO  
**&NotEqualTilde;** =  $\nlessdot$  MINUS TILDE with slash  
**&NotExists;** =  $\nexists$  THERE DOES NOT EXIST  
**&NotGreater;** =  $\ngtr$  NOT GREATER-THAN  
**&NotGreaterEqual;** =  $\nlessdot$  NEITHER GREATER-THAN NOR EQUAL TO  
**&NotGreaterFullEqual;** =  $\nlessdot$  GREATER-THAN OVER EQUAL TO with slash  
**&NotGreaterGreater;** =  $\ggtrless$  MUCH GREATER THAN with slash  
**&NotGreaterLess;** =  $\nlessdot$  NEITHER GREATER-THAN NOR LESS-THAN  
**&NotGreaterSlantEqual;** =  $\ngtrless$  GREATER-THAN OR SLANTED EQUAL TO with slash  
**&NotGreaterTilde;** =  $\nlessdot$  NEITHER GREATER-THAN NOR EQUIVALENT TO  
**&NotHumpDownHump;** =  $\nlessdot$  GEOMETRICALLY EQUIVALENT TO with slash  
**&NotHumpEqual;** =  $\nlessdot$  DIFFERENCE BETWEEN with slash  
**&notin;** =  $\notin$  NOT AN ELEMENT OF  
**&notin-dot;** =  $\notin$  ELEMENT OF WITH DOT ABOVE with slash  
**&notinE;** =  $\notin$  ELEMENT OF WITH TWO HORIZONTAL STROKES with slash  
**&notinva;** =  $\notin$  NOT AN ELEMENT OF  
**&notinvb;** =  $\ni$  SMALL ELEMENT OF WITH OVERBAR  
**&notinvc;** =  $\ni$  ELEMENT OF WITH OVERBAR  
**&NotLeftTriangle;** =  $\nlessdot$  NOT NORMAL SUBGROUP OF  
**&NotLeftTriangleBar;** =  $\nlessdot$  LEFT TRIANGLE BESIDE VERTICAL BAR with slash  
**&NotLeftTriangleEqual;** =  $\nlessdot$  NOT NORMAL SUBGROUP OF OR EQUAL TO  
**&NotLess;** =  $\lessdot$  NOT LESS-THAN  
**&NotLessEqual;** =  $\nlessdot$  NEITHER LESS-THAN NOR EQUAL TO  
**&NotLessGreater;** =  $\nlessdot$  NEITHER LESS-THAN NOR GREATER-THAN  
**&NotLessLess;** =  $\lll$  MUCH LESS THAN with slash  
**&NotLessSlantEqual;** =  $\lessdot$  LESS-THAN OR SLANTED EQUAL TO with slash  
**&NotLessTilde;** =  $\nlessdot$  NEITHER LESS-THAN NOR EQUIVALENT TO  
**&NotNestedGreaterGreater;** =  $\nlessdot$  DOUBLE NESTED GREATER-THAN with slash  
**&NotNestedLessLess;** =  $\nlessdot$  DOUBLE NESTED LESS-THAN with slash  
**&notin;** =  $\ni$  DOES NOT CONTAIN AS MEMBER  
**&notinva;** =  $\ni$  DOES NOT CONTAIN AS MEMBER  
**&notinvb;** =  $\ni$  SMALL CONTAINS WITH OVERBAR  
**&notinvc;** =  $\ni$  CONTAINS WITH OVERBAR  
**&NotPrecedes;** =  $\nlessdot$  DOES NOT PRECEDE  
**&NotPrecedesEqual;** =  $\nlessdot$  PRECEDES ABOVE SINGLE-LINE EQUALS SIGN with slash  
**&NotPrecedesSlantEqual;** =  $\nlessdot$  DOES NOT PRECEDE OR EQUAL  
**&NotReverseElement;** =  $\ni$  DOES NOT CONTAIN AS MEMBER  
**&NotRightTriangle;** =  $\nlessdot$  DOES NOT CONTAIN AS NORMAL SUBGROUP  
**&NotRightTriangleBar;** =  $\nlessdot$  VERTICAL BAR BESIDE RIGHT TRIANGLE with slash  
**&NotRightTriangleEqual;** =  $\nlessdot$  DOES NOT CONTAIN AS NORMAL SUBGROUP OR EQUAL  
**&NotSquareSubset;** =  $\nlessdot$  SQUARE IMAGE OF with slash  
**&NotSquareSubsetEqual;** =  $\nlessdot$  NOT SQUARE IMAGE OF OR EQUAL TO  
**&NotSquareSuperset;** =  $\nlessdot$  SQUARE ORIGINAL OF with slash  
**&NotSquareSupersetEqual;** =  $\nlessdot$  NOT SQUARE ORIGINAL OF OR EQUAL TO  
**&NotSubset;** =  $\nlessdot$  SUBSET OF with vertical line  
**&NotSubsetEqual;** =  $\nlessdot$  NEITHER A SUBSET OF NOR EQUAL TO

**&NotSucceeds;** = ✗ DOES NOT SUCCEED  
**&NotSucceedsEqual;** = ✗ SUCCEEDS ABOVE SINGLE-LINE EQUALS SIGN with slash  
**&NotSucceedsSlantEqual;** = ✗ DOES NOT SUCCEED OR EQUAL  
**&NotSucceedsTilde;** = ✗ SUCCEEDS OR EQUIVALENT TO with slash  
**&NotSuperset;** =  $\supseteq$  SUPERSET OF with vertical line  
**&NotSupersetEqual;** =  $\not\supseteq$  NEITHER A SUPERSET OF NOR EQUAL TO  
**&NotTilde;** = + NOT TILDE  
**&NotTildeEqual;** =  $\neq$  NOT ASYMPTOTICALLY EQUAL TO  
**&NotTildeFullEqual;** =  $\not\approx$  NEITHER APPROXIMATELY NOR ACTUALLY EQUAL TO  
**&NotTildeTilde;** =  $\not\sim$  NOT ALMOST EQUAL TO  
**&NotVerticalBar;** = † DOES NOT DIVIDE  
**&npar;** = † NOT PARALLEL TO  
**&nparallel;** = † NOT PARALLEL TO  
**&nparsl;** =  $\equiv$  DOUBLE SOLIDUS OPERATOR with reverse slash  
**&npart;** =  $\partial$  PARTIAL DIFFERENTIAL with slash  
**&npolint;** =  $\int$  LINE INTEGRATION NOT INCLUDING THE POLE  
**&npr;** = ✗ DOES NOT PRECEDE  
**&nprcue;** = ✗ DOES NOT PRECEDE OR EQUAL  
**&npre;** =  $\preceq$  PRECEDES ABOVE SINGLE-LINE EQUALS SIGN with slash  
**&nprec;** = ✗ DOES NOT PRECEDE  
**&npreceq;** =  $\preceq$  PRECEDES ABOVE SINGLE-LINE EQUALS SIGN with slash  
**&nrArr;** =  $\Rightarrow$  RIGHTWARDS DOUBLE ARROW WITH STROKE  
**&nrarr;** =  $\rightarrow$  RIGHTWARDS ARROW WITH STROKE  
**&nrarrc;** =  $\curvearrowright$  WAVE ARROW POINTING DIRECTLY RIGHT with slash  
**&nrarrw;** =  $\rightsquigarrow$  RIGHTWARDS WAVE ARROW with slash  
**&nRightarrow;** =  $\Rightarrow$  RIGHTWARDS DOUBLE ARROW WITH STROKE  
**&nrightarrow;** =  $\rightarrow$  RIGHTWARDS ARROW WITH STROKE  
**&nRtri;** =  $\not\supset$  DOES NOT CONTAIN AS NORMAL SUBGROUP  
**&nRtrie;** =  $\not\supseteq$  DOES NOT CONTAIN AS NORMAL SUBGROUP OR EQUAL  
**&nsc;** = ✗ DOES NOT SUCCEED  
**&nsccue;** = ✗ DOES NOT SUCCEED OR EQUAL  
**&nsce;** = ✗ SUCCEEDS ABOVE SINGLE-LINE EQUALS SIGN with slash  
**&Nscr;** =  $\mathbb{N}$  MATHEMATICAL SCRIPT CAPITAL N  
**&nscr;** =  $\mathbb{N}$  MATHEMATICAL SCRIPT SMALL N  
**&nshortmid;** = † DOES NOT DIVIDE  
**&nshortparallel;** = † NOT PARALLEL TO  
**&nsim;** = + NOT TILDE  
**&nsime;** =  $\neq$  NOT ASYMPTOTICALLY EQUAL TO  
**&nsimeq;** =  $\neq$  NOT ASYMPTOTICALLY EQUAL TO  
**&nsmid;** = † DOES NOT DIVIDE  
**&nspar;** = † NOT PARALLEL TO  
**&nsqsube;** =  $\not\subseteq$  NOT SQUARE IMAGE OF OR EQUAL TO  
**&nsqsupe;** =  $\not\supseteq$  NOT SQUARE ORIGINAL OF OR EQUAL TO  
**&nsu;** =  $\not\subset$  NOT A SUBSET OF  
**&nsuE;** =  $\not\subseteq$  SUBSET OF ABOVE EQUALS SIGN with slash  
**&nsue;** =  $\not\subseteq$  NEITHER A SUBSET OF NOR EQUAL TO  
**&nsupeq;** =  $\subsetneq$  SUBSET OF with vertical line  
**&nsupeq;** =  $\not\subseteq$  NEITHER A SUBSET OF NOR EQUAL TO  
**&nsupeq;** =  $\subseteq$  SUBSET OF ABOVE EQUALS SIGN with slash  
**&nsucc;** = ✗ DOES NOT SUCCEED  
**&nsucceq;** = ✗ SUCCEEDS ABOVE SINGLE-LINE EQUALS SIGN with slash  
**&nsup;** =  $\not\supset$  NOT A SUPERSET OF  
**&nsupE;** =  $\not\supseteq$  SUPERSET OF ABOVE EQUALS SIGN with slash  
**&nsupe;** =  $\not\supseteq$  NEITHER A SUPERSET OF NOR EQUAL TO  
**&nsupset;** =  $\supseteq$  SUPERSET OF with vertical line  
**&nsupseteq;** =  $\not\supseteq$  NEITHER A SUPERSET OF NOR EQUAL TO  
**&nsupseteq;** =  $\supseteq$  SUPERSET OF ABOVE EQUALS SIGN with slash  
**&ntgl;** =  $\ngtr$  NEITHER GREATER-THAN NOR LESS-THAN  
**&Ntilde;** =  $\tilde{N}$  LATIN CAPITAL LETTER N WITH TILDE  
**&ntilde;** =  $\tilde{n}$  LATIN SMALL LETTER N WITH TILDE  
**&ntlg;** =  $\ngtr$  NEITHER LESS-THAN NOR GREATER-THAN  
**&ntriangleleft;** =  $\not\triangleleft$  NOT NORMAL SUBGROUP OF  
**&ntrianglelefteq;** =  $\not\trianglelefteq$  NOT NORMAL SUBGROUP OF OR EQUAL TO  
**&ntriangleright;** =  $\not\triangleright$  DOES NOT CONTAIN AS NORMAL SUBGROUP

**&ntrianglerighteq;** =  $\ntrianglerighteq$  DOES NOT CONTAIN AS NORMAL SUBGROUP OR EQUAL  
**&Nu;** =  $\text{N}$  GREEK CAPITAL LETTER NU  
**&nu;** =  $\text{v}$  GREEK SMALL LETTER NU  
**&num;** =  $\#$  NUMBER SIGN  
**&numero;** =  $\text{N}\text{e}$  NUMERO SIGN  
**&numsp;** = FIGURE SPACE  
**&nvap;** =  $\simeq$  EQUIVALENT TO with vertical line  
**&nVDash;** =  $\nVdash$  NEGATED DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE  
**&nVdash;** =  $\nVdash$  DOES NOT FORCE  
**&nvDash;** =  $\nvDash$  NOT TRUE  
**&nvdash;** =  $\nvDash$  DOES NOT PROVE  
**&nvge;** =  $\geq$  GREATER-THAN OR EQUAL TO with vertical line  
**&nvgt;** =  $>$  GREATER-THAN SIGN with vertical line  
**&nvHarr;** =  $\longleftrightarrow$  LEFT RIGHT DOUBLE ARROW WITH VERTICAL STROKE  
**&nvinfin;** =  $\n\infty$  INFINITY NEGATED WITH VERTICAL BAR  
**&nvlArr;** =  $\longleftarrow$  LEFTWARDS DOUBLE ARROW WITH VERTICAL STROKE  
**&nvle;** =  $\leq$  LESS-THAN OR EQUAL TO with vertical line  
**&nvlt;** =  $<$  LESS-THAN SIGN with vertical line  
**&nvltrie;** =  $\trianglelefteq$  NORMAL SUBGROUP OF OR EQUAL TO with vertical line  
**&nvrArr;** =  $\longrightarrow$  RIGHTWARDS DOUBLE ARROW WITH VERTICAL STROKE  
**&nvrtrie;** =  $\trianglerighteq$  CONTAINS AS NORMAL SUBGROUP OR EQUAL TO with vertical line  
**&nvsim;** =  $\sim$  TILDE OPERATOR with vertical line  
**&nwarhk;** =  $\nwarrow$  NORTH WEST ARROW WITH HOOK  
**&nwArr;** =  $\n\swarrow$  NORTH WEST DOUBLE ARROW  
**&nwarr;** =  $\nwarrow$  NORTH WEST ARROW  
**&nwarrow;** =  $\nwarrow$  NORTH WEST ARROW  
**&nwnear;** =  $\nearrow$  NORTH WEST ARROW AND NORTH EAST ARROW  
**&Oacute;** =  $\text{O}\acute{\text{O}}$  LATIN CAPITAL LETTER O WITH ACUTE  
**&oacute;** =  $\text{o}\acute{\text{o}}$  LATIN SMALL LETTER O WITH ACUTE  
**&oast;** =  $\text{O}\ast$  CIRCLED ASTERISK OPERATOR  
**&ocir;** =  $\text{O}\circ$  CIRCLED RING OPERATOR  
**&Ocirc;** =  $\text{O}\circ$  LATIN CAPITAL LETTER O WITH CIRCUMFLEX  
**&ocirc;** =  $\text{o}\circ$  LATIN SMALL LETTER O WITH CIRCUMFLEX  
**&Ocy;** =  $\text{O}\text{O}$  CYRILLIC CAPITAL LETTER O  
**&ocy;** =  $\text{o}\text{o}$  CYRILLIC SMALL LETTER O  
**&odash;** =  $\text{O}\text{O}$  CIRCLED DASH  
**&Odblac;** =  $\text{O}\text{O}\text{O}$  LATIN CAPITAL LETTER O WITH DOUBLE ACUTE  
**&odblac;** =  $\text{o}\text{O}\text{O}$  LATIN SMALL LETTER O WITH DOUBLE ACUTE  
**&odiv;** =  $\text{O}\text{O}$  CIRCLED DIVISION SIGN  
**&odot;** =  $\text{O}\text{O}$  CIRCLED DOT OPERATOR  
**&odsold;** =  $\text{O}\text{O}$  CIRCLED ANTICLOCKWISE-ROTATED DIVISION SIGN  
**&OElig;** =  $\text{O}\text{E}$  LATIN CAPITAL LIGATURE OE  
**&oelig;** =  $\text{o}\text{e}$  LATIN SMALL LIGATURE OE  
**&ofcir;** =  $\text{O}\circ$  CIRCLED BULLET  
**&Ofr;** =  $\text{O}$  MATHEMATICAL FRAKTUR CAPITAL O  
**&ofr;** =  $\text{o}$  MATHEMATICAL FRAKTUR SMALL O  
**&ogon;** =  $\text{O}\text{G}$  OGONEK  
**&Ograve;** =  $\text{O}\grave{\text{O}}$  LATIN CAPITAL LETTER O WITH GRAVE  
**&ograve;** =  $\text{o}\grave{\text{o}}$  LATIN SMALL LETTER O WITH GRAVE  
**&ogt;** =  $\text{O}\text{O}$  CIRCLED GREATER-THAN  
**&ohbar;** =  $\text{O}\text{O}$  CIRCLE WITH HORIZONTAL BAR  
**&ohm;** =  $\text{O}\text{O}$  GREEK CAPITAL LETTER OMEGA  
**&oint;** =  $\text{O}\text{O}$  CONTOUR INTEGRAL  
**&olarr;** =  $\text{O}\text{O}$  ANTICLOCKWISE OPEN CIRCLE ARROW  
**&olcir;** =  $\text{O}\text{O}$  CIRCLED WHITE BULLET  
**&olcross;** =  $\text{O}\text{O}$  CIRCLE WITH SUPERIMPOSED X  
**&oline;** =  $\text{O}\text{O}$  OVERLINE  
**&olt;** =  $\text{O}\text{O}$  CIRCLED LESS-THAN  
**&Omacr;** =  $\text{O}\text{O}$  LATIN CAPITAL LETTER O WITH MACRON  
**&omacr;** =  $\text{o}\text{O}$  LATIN SMALL LETTER O WITH MACRON  
**&Omega;** =  $\text{O}\text{O}$  GREEK CAPITAL LETTER OMEGA  
**&omega;** =  $\text{o}\text{O}$  GREEK SMALL LETTER OMEGA  
**&Omicron;** =  $\text{O}\text{O}$  GREEK CAPITAL LETTER OMICRON  
**&omicron;** =  $\text{o}\text{O}$  GREEK SMALL LETTER OMICRON

**&omid;** = ◡ CIRCLED VERTICAL BAR  
**&ominus;** = ⊖ CIRCLED MINUS  
**&Oopf;** = ① MATHEMATICAL DOUBLE-STRUCK CAPITAL O  
**&oopf;** = ② MATHEMATICAL DOUBLE-STRUCK SMALL O  
**&opar;** = ◌ CIRCLED PARALLEL  
**&OpenCurlyDoubleQuote;** = “ LEFT DOUBLE QUOTATION MARK  
**&OpenCurlyQuote;** = ‘ LEFT SINGLE QUOTATION MARK  
**&operp;** = ⊥ CIRCLED PERPENDICULAR  
**&oplus;** = ⊕ CIRCLED PLUS  
**&Or;** = ∨ DOUBLE LOGICAL OR  
**&or;** = ∨ LOGICAL OR  
**&orarr;** = ↻ CLOCKWISE OPEN CIRCLE ARROW  
**&ord;** = − LOGICAL OR WITH HORIZONTAL DASH  
**&order;** = ˆ SCRIPT SMALL O  
**&orderof;** = ˆ SCRIPT SMALL O  
**&ordf;** = º FEMININE ORDINAL INDICATOR  
**&ordm;** = º MASCULINE ORDINAL INDICATOR  
**&origof;** = ↪ ORIGINAL OF  
**&oror;** = ⊞ TWO INTERSECTING LOGICAL OR  
**&orslope;** = ∟ SLOPING LARGE OR  
**&orv;** = ∟ LOGICAL OR WITH MIDDLE STEM  
**&oS;** = ◌ CIRCLED LATIN CAPITAL LETTER S  
**&Oscr;** = ˆ MATHEMATICAL SCRIPT CAPITAL O  
**&oscr;** = ˆ SCRIPT SMALL O  
**&Oslash;** = Ø LATIN CAPITAL LETTER O WITH STROKE  
**&oslash;** = ø LATIN SMALL LETTER O WITH STROKE  
**&osol;** = ⊘ CIRCLED DIVISION SLASH  
**&Otilde;** = Õ LATIN CAPITAL LETTER O WITH TILDE  
**&otilde;** = õ LATIN SMALL LETTER O WITH TILDE  
**&Otimes;** = ⊞ MULTIPLICATION SIGN IN DOUBLE CIRCLE  
**&otimes;** = ⊗ CIRCLED TIMES  
**&otimesas;** = ⊞ CIRCLED MULTIPLICATION SIGN WITH CIRCUMFLEX ACCENT  
**&Ouml;** = Ö LATIN CAPITAL LETTER O WITH DIAERESIS  
**&ouml;** = ö LATIN SMALL LETTER O WITH DIAERESIS  
**&ovbar;** = ◌ APL FUNCTIONAL SYMBOL CIRCLE STILE  
**&OverBar;** = ¯ OVERLINE  
**&OverBrace;** = ⏞ TOP CURLY BRACKET  
**&OverBracket;** = ⏚ TOP SQUARE BRACKET  
**&OverParenthesis;** = ⏘ TOP PARENTHESIS  
**&par;** = ∥ PARALLEL TO  
**&para;** = ¶ PILCROW SIGN  
**&parallel;** = ∥ PARALLEL TO  
**&parsim;** = ∥ PARALLEL WITH TILDE OPERATOR  
**&parsl;** = ∥ DOUBLE SOLIDUS OPERATOR  
**&part;** = ∂ PARTIAL DIFFERENTIAL  
**&PartialD;** = ∂ PARTIAL DIFFERENTIAL  
**&Pcy;** = П CYRILLIC CAPITAL LETTER PE  
**&pcy;** = п CYRILLIC SMALL LETTER PE  
**&percent;** = % PERCENT SIGN  
**&period;** = . FULL STOP  
**&permil;** = ‰ PER MILLE SIGN  
**&perp;** = ⊥ UP TACK  
**&pertenk;** = ‰ PER TEN THOUSAND SIGN  
**&Pfr;** = ℞ MATHEMATICAL FRAKTUR CAPITAL P  
**&pfr;** = ℞ MATHEMATICAL FRAKTUR SMALL P  
**&Phi;** = Φ GREEK CAPITAL LETTER PHI  
**&phi;** = φ GREEK SMALL LETTER PHI  
**&phiv;** = ϕ GREEK PHI SYMBOL  
**&phmmat;** = ℞ SCRIPT CAPITAL M  
**&phone;** = ☎ BLACK TELEPHONE  
**&Pi;** = Π GREEK CAPITAL LETTER PI  
**&pi;** = π GREEK SMALL LETTER PI  
**&pitchfork;** = † PITCHFORK  
**&piv;** = ϖ GREEK PI SYMBOL

**&planck;** =  $\hbar$  PLANCK CONSTANT OVER TWO PI  
**&planckh;** =  $h$  PLANCK CONSTANT  
**&plankv;** =  $\hbar$  PLANCK CONSTANT OVER TWO PI  
**&plus;** = + PLUS SIGN  
**&plusacir;** = ◻ PLUS SIGN WITH CIRCUMFLEX ACCENT ABOVE  
**&plusb;** = ⊕ SQUARED PLUS  
**&pluscir;** = ◻ PLUS SIGN WITH SMALL CIRCLE ABOVE  
**&plusdo;** = ⋇ DOT PLUS  
**&plusdu;** = ◻ PLUS SIGN WITH DOT BELOW  
**&pluse;** = ◻ PLUS SIGN ABOVE EQUALS SIGN  
**&PlusMinus;** = ± PLUS-MINUS SIGN  
**&plusmn;** = ± PLUS-MINUS SIGN  
**&plussim;** = ◻ PLUS SIGN WITH TILDE BELOW  
**&plustwo;** = ◻ PLUS SIGN WITH SUBSCRIPT TWO  
**&pm;** = ± PLUS-MINUS SIGN  
**&Poincareplane;** = ℍ BLACK-LETTER CAPITAL H  
**&pointint;** = ∮ INTEGRAL AROUND A POINT OPERATOR  
**&Popf;** = ℙ DOUBLE-STRUCK CAPITAL P  
**&popf;** = 𝔓 MATHEMATICAL DOUBLE-STRUCK SMALL P  
**&pound;** = £ POUND SIGN  
**&Pr;** = ◻ DOUBLE PRECEDES  
**&pr;** = ⋈ PRECEDES  
**&prap;** = ⋈ PRECEDES ABOVE ALMOST EQUAL TO  
**&prcue;** = ⋈ PRECEDES OR EQUAL TO  
**&prE;** = ⋈ PRECEDES ABOVE EQUALS SIGN  
**&pre;** = ⋈ PRECEDES ABOVE SINGLE-LINE EQUALS SIGN  
**&prec;** = ⋈ PRECEDES  
**&precapprox;** = ⋈ PRECEDES ABOVE ALMOST EQUAL TO  
**&preccurlyeq;** = ⋈ PRECEDES OR EQUAL TO  
**&Precedes;** = ⋈ PRECEDES  
**&PrecedesEqual;** = ⋈ PRECEDES ABOVE SINGLE-LINE EQUALS SIGN  
**&PrecedesSlantEqual;** = ⋈ PRECEDES OR EQUAL TO  
**&PrecedesTilde;** = ⋈ PRECEDES OR EQUIVALENT TO  
**&preceq;** = ⋈ PRECEDES ABOVE SINGLE-LINE EQUALS SIGN  
**&precnapprox;** = ⋈ PRECEDES ABOVE NOT ALMOST EQUAL TO  
**&precneqq;** = ⋈ PRECEDES ABOVE NOT EQUAL TO  
**&precnsim;** = ⋈ PRECEDES BUT NOT EQUIVALENT TO  
**&precsim;** = ⋈ PRECEDES OR EQUIVALENT TO  
**&Prime;** = ″ DOUBLE PRIME  
**&prime;** = ′ PRIME  
**&primes;** = ℙ DOUBLE-STRUCK CAPITAL P  
**&prnap;** = ⋈ PRECEDES ABOVE NOT ALMOST EQUAL TO  
**&prnE;** = ⋈ PRECEDES ABOVE NOT EQUAL TO  
**&prnsim;** = ⋈ PRECEDES BUT NOT EQUIVALENT TO  
**&prod;** = ∏ N-ARY PRODUCT  
**&Product;** = ∏ N-ARY PRODUCT  
**&profalar;** = ◻ ALL AROUND-PROFILE  
**&proflin;** = ◻ ARC  
**&profsurf;** = ◻ SEGMENT  
**&prop;** = ∝ PROPORTIONAL TO  
**&Proportion;** = ∴ PROPORTION  
**&Proportional;** = ∝ PROPORTIONAL TO  
**&propto;** = ∝ PROPORTIONAL TO  
**&prsim;** = ⋈ PRECEDES OR EQUIVALENT TO  
**&prurel;** = ⋈ PRECEDES UNDER RELATION  
**&Pscr;** = ◻ MATHEMATICAL SCRIPT CAPITAL P  
**&pscr;** = ◻ MATHEMATICAL SCRIPT SMALL P  
**&Psi;** = Ψ GREEK CAPITAL LETTER PSI  
**&psi;** = ψ GREEK SMALL LETTER PSI  
**&puncsp;** = PUNCTUATION SPACE  
**&Qfr;** = ◻ MATHEMATICAL FRAKTUR CAPITAL Q  
**&qfr;** = ◻ MATHEMATICAL FRAKTUR SMALL Q  
**&qint;** = ∯ QUADRUPLE INTEGRAL OPERATOR  
**&Qopf;** = ℚ DOUBLE-STRUCK CAPITAL Q

**&qopf;** =  $\mathbb{Q}$  MATHEMATICAL DOUBLE-STRUCK SMALL Q  
**&qprime;** =  $''''$  QUADRUPLE PRIME  
**&Qscr;** =  $\mathbb{Q}$  MATHEMATICAL SCRIPT CAPITAL Q  
**&qscr;** =  $\mathbb{Q}$  MATHEMATICAL SCRIPT SMALL Q  
**&quaternions;** =  $\mathbb{H}$  DOUBLE-STRUCK CAPITAL H  
**&quatint;** =  $\oint$  QUATERNION INTEGRAL OPERATOR  
**&quest;** = ? QUESTION MARK  
**&questeq;** =  $\stackrel{?}{=}$  QUESTIONED EQUAL TO  
**&QUOT;** = " QUOTATION MARK  
**&quot;** = " QUOTATION MARK  
**&rAarr;** =  $\Rightarrow$  RIGHTWARDS TRIPLE ARROW  
**&race;** =  $\sim$  REVERSED TILDE with underline  
**&Racute;** =  $\acute{R}$  LATIN CAPITAL LETTER R WITH ACUTE  
**&racute;** =  $\acute{r}$  LATIN SMALL LETTER R WITH ACUTE  
**&radic;** =  $\sqrt{\quad}$  SQUARE ROOT  
**&raemptyv;** =  $\emptyset$  EMPTY SET WITH RIGHT ARROW ABOVE  
**&Rang;** =  $\rangle\rangle$  MATHEMATICAL RIGHT DOUBLE ANGLE BRACKET  
**&rang;** =  $\rangle$  MATHEMATICAL RIGHT ANGLE BRACKET  
**&rangd;** =  $\square$  RIGHT ANGLE BRACKET WITH DOT  
**&range;** =  $\sphericalangle$  REVERSED ANGLE WITH UNDERBAR  
**&rangle;** =  $\rangle$  MATHEMATICAL RIGHT ANGLE BRACKET  
**&raquo;** =  $\gg$  RIGHT-POINTING DOUBLE ANGLE QUOTATION MARK  
**&Rarr;** =  $\twoheadrightarrow$  RIGHTWARDS TWO HEADED ARROW  
**&rArr;** =  $\Rightarrow$  RIGHTWARDS DOUBLE ARROW  
**&rarr;** =  $\rightarrow$  RIGHTWARDS ARROW  
**&rarrap;** =  $\overrightarrow{\square}$  RIGHTWARDS ARROW ABOVE ALMOST EQUAL TO  
**&rarrb;** =  $\rightarrow\!\!\rightarrow$  RIGHTWARDS ARROW TO BAR  
**&rarrbfs;** =  $\overrightarrow{\square}$  RIGHTWARDS ARROW FROM BAR TO BLACK DIAMOND  
**&rarrc;** =  $\overrightarrow{\square}$  WAVE ARROW POINTING DIRECTLY RIGHT  
**&rarrfs;** =  $\overrightarrow{\square}$  RIGHTWARDS ARROW TO BLACK DIAMOND  
**&rarrhk;** =  $\curvearrowright$  RIGHTWARDS ARROW WITH HOOK  
**&rarrlp;** =  $\overrightarrow{\square}$  RIGHTWARDS ARROW WITH LOOP  
**&rarrpl;** =  $\overrightarrow{\square}$  RIGHTWARDS ARROW WITH PLUS BELOW  
**&rarrsim;** =  $\overrightarrow{\square}$  RIGHTWARDS ARROW ABOVE TILDE OPERATOR  
**&Rarrtl;** =  $\overrightarrow{\square}$  RIGHTWARDS TWO-HEADED ARROW WITH TAIL  
**&rarrtl;** =  $\twoheadrightarrow$  RIGHTWARDS ARROW WITH TAIL  
**&rarrw;** =  $\rightsquigarrow$  RIGHTWARDS WAVE ARROW  
**&rAtail;** =  $\overrightarrow{\square}$  RIGHTWARDS DOUBLE ARROW-TAIL  
**&ratail;** =  $\overrightarrow{\square}$  RIGHTWARDS ARROW-TAIL  
**&ratio;** = : RATIO  
**&rational;** =  $\mathbb{Q}$  DOUBLE-STRUCK CAPITAL Q  
**&RBarr;** =  $\overrightarrow{\square}$  RIGHTWARDS TWO-HEADED TRIPLE DASH ARROW  
**&rBarr;** =  $\overrightarrow{\square}$  RIGHTWARDS TRIPLE DASH ARROW  
**&rbarr;** =  $\overrightarrow{\square}$  RIGHTWARDS DOUBLE DASH ARROW  
**&rbbrk;** =  $\})$  LIGHT RIGHT TORTOISE SHELL BRACKET ORNAMENT  
**&rbrace;** =  $\}$  RIGHT CURLY BRACKET  
**&rbrack;** =  $\}]$  RIGHT SQUARE BRACKET  
**&rbrke;** =  $\square$  RIGHT SQUARE BRACKET WITH UNDERBAR  
**&rbrksld;** =  $\square$  RIGHT SQUARE BRACKET WITH TICK IN BOTTOM CORNER  
**&rbrkslu;** =  $\square$  RIGHT SQUARE BRACKET WITH TICK IN TOP CORNER  
**&Rcaron;** =  $\acute{R}$  LATIN CAPITAL LETTER R WITH CARON  
**&rcaron;** =  $\acute{r}$  LATIN SMALL LETTER R WITH CARON  
**&Rcedil;** =  $\mathring{R}$  LATIN CAPITAL LETTER R WITH CEDILLA  
**&rcedil;** =  $\mathring{r}$  LATIN SMALL LETTER R WITH CEDILLA  
**&rceil;** =  $\lceil$  RIGHT CEILING  
**&rcub;** =  $\rceil$  RIGHT CURLY BRACKET  
**&Rcy;** =  $\text{P}$  CYRILLIC CAPITAL LETTER ER  
**&rcy;** =  $\text{p}$  CYRILLIC SMALL LETTER ER  
**&rdca;** =  $\overrightarrow{\square}$  ARROW POINTING DOWNWARDS THEN CURVING RIGHTWARDS  
**&rdldhar;** =  $\overrightarrow{\square}$  RIGHTWARDS HARPOON WITH BARB DOWN ABOVE LEFTWARDS HARPOON WITH BARB DOWN  
**&rdquo;** = " RIGHT DOUBLE QUOTATION MARK  
**&rdquor;** = " RIGHT DOUBLE QUOTATION MARK  
**&rdsh;** =  $\Downarrow$  DOWNWARDS ARROW WITH TIP RIGHTWARDS



**&Re;** =  BLACK-LETTER CAPITAL R  
**&real;** =  BLACK-LETTER CAPITAL R  
**&realine;** =  SCRIPT CAPITAL R  
**&realpart;** =  BLACK-LETTER CAPITAL R  
**&reals;** =  DOUBLE-STRUCK CAPITAL R  
**&rect;** =  WHITE RECTANGLE  
**&REG;** =  REGISTERED SIGN  
**&reg;** =  REGISTERED SIGN  
**&ReverseElement;** =  CONTAINS AS MEMBER  
**&ReverseEquilibrium;** =  LEFTWARDS HARPOON OVER RIGHTWARDS HARPOON  
**&ReverseUpEquilibrium;** =  DOWNWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT  
**&rfisht;** =  RIGHT FISH TAIL  
**&rfloor;** =  RIGHT FLOOR  
**&Rfr;** =  BLACK-LETTER CAPITAL R  
**&rfr;** =  MATHEMATICAL FRAKTUR SMALL R  
**&rHar;** =  RIGHTWARDS HARPOON WITH BARB UP ABOVE RIGHTWARDS HARPOON WITH BARB DOWN  
**&rhard;** =  RIGHTWARDS HARPOON WITH BARB DOWNWARDS  
**&rharu;** =  RIGHTWARDS HARPOON WITH BARB UPWARDS  
**&rharul;** =  RIGHTWARDS HARPOON WITH BARB UP ABOVE LONG DASH  
**&Rho;** =  GREEK CAPITAL LETTER RHO  
**&rho;** =  GREEK SMALL LETTER RHO  
**&rhov;** =  GREEK RHO SYMBOL  
**&RightAngleBracket;** =  MATHEMATICAL RIGHT ANGLE BRACKET  
**&RightArrow;** =  RIGHTWARDS ARROW  
**&Rightarrow;** =  RIGHTWARDS DOUBLE ARROW  
**&rightarrow;** =  RIGHTWARDS ARROW  
**&RightArrowBar;** =  RIGHTWARDS ARROW TO BAR  
**&RightArrowLeftArrow;** =  RIGHTWARDS ARROW OVER LEFTWARDS ARROW  
**&rightarrowtail;** =  RIGHTWARDS ARROW WITH TAIL  
**&RightCeiling;** =  RIGHT CEILING  
**&RightDoubleBracket;** =  MATHEMATICAL RIGHT WHITE SQUARE BRACKET  
**&RightDownTeeVector;** =  DOWNWARDS HARPOON WITH BARB RIGHT FROM BAR  
**&RightDownVector;** =  DOWNWARDS HARPOON WITH BARB RIGHTWARDS  
**&RightDownVectorBar;** =  DOWNWARDS HARPOON WITH BARB RIGHT TO BAR  
**&RightFloor;** =  RIGHT FLOOR  
**&rightharpoondown;** =  RIGHTWARDS HARPOON WITH BARB DOWNWARDS  
**&rightharpoonup;** =  RIGHTWARDS HARPOON WITH BARB UPWARDS  
**&rightleftarrows;** =  RIGHTWARDS ARROW OVER LEFTWARDS ARROW  
**&rightleftharpoons;** =  RIGHTWARDS HARPOON OVER LEFTWARDS HARPOON  
**&righttriarrows;** =  RIGHTWARDS PAIRED ARROWS  
**&rightsquigarrow;** =  RIGHTWARDS WAVE ARROW  
**&RightTee;** =  RIGHT TACK  
**&RightTeeArrow;** =  RIGHTWARDS ARROW FROM BAR  
**&RightTeeVector;** =  RIGHTWARDS HARPOON WITH BARB UP FROM BAR  
**&rightthreetimes;** =  RIGHT SEMIDIRECT PRODUCT  
**&RightTriangle;** =  CONTAINS AS NORMAL SUBGROUP  
**&RightTriangleBar;** =  VERTICAL BAR BESIDE RIGHT TRIANGLE  
**&RightTriangleEqual;** =  CONTAINS AS NORMAL SUBGROUP OR EQUAL TO  
**&RightUpDownVector;** =  UP BARB RIGHT DOWN BARB RIGHT HARPOON  
**&RightUpTeeVector;** =  UPWARDS HARPOON WITH BARB RIGHT FROM BAR  
**&RightUpVector;** =  UPWARDS HARPOON WITH BARB RIGHTWARDS  
**&RightUpVectorBar;** =  UPWARDS HARPOON WITH BARB RIGHT TO BAR  
**&RightVector;** =  RIGHTWARDS HARPOON WITH BARB UPWARDS  
**&RightVectorBar;** =  RIGHTWARDS HARPOON WITH BARB UP TO BAR  
**&ring;** =  RING ABOVE  
**&risingdotseq;** =  IMAGE OF OR APPROXIMATELY EQUAL TO  
**&rlarr;** =  RIGHTWARDS ARROW OVER LEFTWARDS ARROW  
**&rlhar;** =  RIGHTWARDS HARPOON OVER LEFTWARDS HARPOON  
**&rlm;** =  RIGHT-TO-LEFT MARK  
**&rmoust;** =  UPPER RIGHT OR LOWER LEFT CURLY BRACKET SECTION  
**&rmoustache;** =  UPPER RIGHT OR LOWER LEFT CURLY BRACKET SECTION  
**&rnmid;** =  DOES NOT DIVIDE WITH REVERSED NEGATION SLASH  
**&roang;** =  MATHEMATICAL RIGHT WHITE TORTOISE SHELL BRACKET

**&roarr;** =  $\rightarrow$  RIGHTWARDS OPEN-HEADED ARROW  
**&robrk;** =  $\rrbracket$  MATHEMATICAL RIGHT WHITE SQUARE BRACKET  
**&ropar;** =  $\)$  RIGHT WHITE PARENTHESIS  
**&Ropf;** =  $\mathbb{R}$  DOUBLE-STRUCK CAPITAL R  
**&ropf;** =  $\mathfrak{r}$  MATHEMATICAL DOUBLE-STRUCK SMALL R  
**&roplus;** =  $\oplus$  PLUS SIGN IN RIGHT HALF CIRCLE  
**&rotimes;** =  $\otimes$  MULTIPLICATION SIGN IN RIGHT HALF CIRCLE  
**&RoundImplies;** =  $\Rightarrow$  RIGHT DOUBLE ARROW WITH ROUNDED HEAD  
**&rpar;** =  $)$  RIGHT PARENTHESIS  
**&rpargt;** =  $\rceil$  RIGHT ARC GREATER-THAN BRACKET  
**&rppolint;** =  $\int_{\square}$  LINE INTEGRATION WITH RECTANGULAR PATH AROUND POLE  
**&rrarr;** =  $\Rightarrow$  RIGHTWARDS PAIRED ARROWS  
**&Rrightarrow;** =  $\Rightarrow$  RIGHTWARDS TRIPLE ARROW  
**&rsaquo;** =  $\rangle$  SINGLE RIGHT-POINTING ANGLE QUOTATION MARK  
**&Rscr;** =  $\mathfrak{R}$  SCRIPT CAPITAL R  
**&rscr;** =  $\mathfrak{r}$  MATHEMATICAL SCRIPT SMALL R  
**&Rsh;** =  $\Uparrow$  UPWARDS ARROW WITH TIP RIGHTWARDS  
**&rsh;** =  $\Prightarrow$  UPWARDS ARROW WITH TIP RIGHTWARDS  
**&rsqb;** =  $\rrbracket$  RIGHT SQUARE BRACKET  
**&rsquo;** =  $'$  RIGHT SINGLE QUOTATION MARK  
**&rsquor;** =  $'$  RIGHT SINGLE QUOTATION MARK  
**&rthree;** =  $\ltimes$  RIGHT SEMIDIRECT PRODUCT  
**&rtimes;** =  $\rtimes$  RIGHT NORMAL FACTOR SEMIDIRECT PRODUCT  
**&rtri;** =  $\blacktriangle$  WHITE RIGHT-POINTING SMALL TRIANGLE  
**&rtrie;** =  $\supseteq$  CONTAINS AS NORMAL SUBGROUP OR EQUAL TO  
**&rtrif;** =  $\blacktriangleright$  BLACK RIGHT-POINTING SMALL TRIANGLE  
**&rtriltri;** =  $\blacktriangleleft$  RIGHT TRIANGLE ABOVE LEFT TRIANGLE  
**&RuleDelayed;** =  $\rule{0pt}{0pt}$  RULE-DELAYED  
**&ruluhar;** =  $\harpoonright$  RIGHTWARDS HARPOON WITH BARB UP ABOVE LEFTWARDS HARPOON WITH BARB UP  
**&rx;** =  $\mathbb{R}$  PRESCRIPTION TAKE  
**&Sacute;** =  $\mathring{S}$  LATIN CAPITAL LETTER S WITH ACUTE  
**&sacute;** =  $\mathring{s}$  LATIN SMALL LETTER S WITH ACUTE  
**&sbquo;** =  $\text{‚}$  SINGLE LOW-9 QUOTATION MARK  
**&Sc;** =  $\square$  DOUBLE SUCCEEDS  
**&sc;** =  $\succ$  SUCCEEDS  
**&scap;** =  $\supseteq$  SUCCEEDS ABOVE ALMOST EQUAL TO  
**&Scaron;** =  $\mathring{S}$  LATIN CAPITAL LETTER S WITH CARON  
**&scaron;** =  $\mathring{s}$  LATIN SMALL LETTER S WITH CARON  
**&sccue;** =  $\supseteq$  SUCCEEDS OR EQUAL TO  
**&scE;** =  $\supseteq$  SUCCEEDS ABOVE EQUALS SIGN  
**&sce;** =  $\supseteq$  SUCCEEDS ABOVE SINGLE-LINE EQUALS SIGN  
**&Scedil;** =  $\mathring{S}$  LATIN CAPITAL LETTER S WITH CEDILLA  
**&scedil;** =  $\mathring{s}$  LATIN SMALL LETTER S WITH CEDILLA  
**&Scirc;** =  $\mathring{S}$  LATIN CAPITAL LETTER S WITH CIRCUMFLEX  
**&scirc;** =  $\mathring{s}$  LATIN SMALL LETTER S WITH CIRCUMFLEX  
**&scnap;** =  $\not\supseteq$  SUCCEEDS ABOVE NOT ALMOST EQUAL TO  
**&scnE;** =  $\not\supseteq$  SUCCEEDS ABOVE NOT EQUAL TO  
**&scnsim;** =  $\not\supseteq$  SUCCEEDS BUT NOT EQUIVALENT TO  
**&scpolint;** =  $\int_{\cup}$  LINE INTEGRATION WITH SEMICIRCULAR PATH AROUND POLE  
**&scsim;** =  $\supseteq$  SUCCEEDS OR EQUIVALENT TO  
**&Scy;** =  $\text{С}$  CYRILLIC CAPITAL LETTER ES  
**&scy;** =  $\text{с}$  CYRILLIC SMALL LETTER ES  
**&sdot;** =  $\cdot$  DOT OPERATOR  
**&sdotb;** =  $\boxdot$  SQUARED DOT OPERATOR  
**&sdote;** =  $\underset{\cdot}{=}$  EQUALS SIGN WITH DOT BELOW  
**&searhk;** =  $\searrow$  SOUTH EAST ARROW WITH HOOK  
**&seArr;** =  $\searrow$  SOUTH EAST DOUBLE ARROW  
**&searr;** =  $\searrow$  SOUTH EAST ARROW  
**&searrow;** =  $\searrow$  SOUTH EAST ARROW  
**&sect;** =  $\S$  SECTION SIGN  
**&semi;** =  $;$  SEMICOLON  
**&seswar;** =  $\swarrow$  SOUTH EAST ARROW AND SOUTH WEST ARROW  
**&setminus;** =  $\setminus$  SET MINUS  
**&setmn;** =  $\setminus$  SET MINUS

**&sext;** = ✱ SIX POINTED BLACK STAR  
**&Sfr;** = ℞ MATHEMATICAL FRAKTUR CAPITAL S  
**&sfr;** = ℞ MATHEMATICAL FRAKTUR SMALL S  
**&sfrown;** = ☹ FROWN  
**&sharp;** = ♯ MUSIC SHARP SIGN  
**&SHCHcy;** = Ш CYRILLIC CAPITAL LETTER SHCHA  
**&shchcy;** = ш CYRILLIC SMALL LETTER SHCHA  
**&SHcy;** = Ш CYRILLIC CAPITAL LETTER SHA  
**&shcy;** = ш CYRILLIC SMALL LETTER SHA  
**&ShortDownArrow;** = ↓ DOWNWARDS ARROW  
**&ShortLeftArrow;** = ← LEFTWARDS ARROW  
**&shortmid;** = | DIVIDES  
**&shortparallel;** = ∥ PARALLEL TO  
**&ShortRightArrow;** = → RIGHTWARDS ARROW  
**&ShortUpArrow;** = ↑ UPWARDS ARROW  
**&shy;** = † SOFT HYPHEN  
**&Sigma;** = Σ GREEK CAPITAL LETTER SIGMA  
**&sigma;** = σ GREEK SMALL LETTER SIGMA  
**&sigmaf;** = ς GREEK SMALL LETTER FINAL SIGMA  
**&sigmav;** = ς GREEK SMALL LETTER FINAL SIGMA  
**&sim;** = ~ TILDE OPERATOR  
**&simdot;** = ∼ TILDE OPERATOR WITH DOT ABOVE  
**&sime;** = ≈ ASYMPTOTICALLY EQUAL TO  
**&simeq;** = ≈ ASYMPTOTICALLY EQUAL TO  
**&simg;** = ≳ SIMILAR OR GREATER-THAN  
**&simgE;** = ≳ SIMILAR ABOVE GREATER-THAN ABOVE EQUALS SIGN  
**&siml;** = ≲ SIMILAR OR LESS-THAN  
**&simlE;** = ≲ SIMILAR ABOVE LESS-THAN ABOVE EQUALS SIGN  
**&simne;** = ≈ APPROXIMATELY BUT NOT ACTUALLY EQUAL TO  
**&simplus;** = ⋈ PLUS SIGN WITH TILDE ABOVE  
**&simrarr;** = ⋈ TILDE OPERATOR ABOVE RIGHTWARDS ARROW  
**&slarr;** = ← LEFTWARDS ARROW  
**&SmallCircle;** = ∘ RING OPERATOR  
**&smallsetminus;** = \ SET MINUS  
**&smashp;** = ⋈ SMASH PRODUCT  
**&smeparsl;** = ⋈ EQUALS SIGN AND SLANTED PARALLEL WITH TILDE ABOVE  
**&smid;** = | DIVIDES  
**&smile;** = ☺ SMILE  
**&smt;** = ☐ SMALLER THAN  
**&smte;** = ☐ SMALLER THAN OR EQUAL TO  
**&smtes;** = ☐ SMALLER THAN OR slanted EQUAL  
**&SOFTcy;** = Ё CYRILLIC CAPITAL LETTER SOFT SIGN  
**&softcy;** = ё CYRILLIC SMALL LETTER SOFT SIGN  
**&sol;** = / SOLIDUS  
**&solb;** = ☐ SQUARED RISING DIAGONAL SLASH  
**&solbar;** = ☐ APL FUNCTIONAL SYMBOL SLASH BAR  
**&Sopf;** = Ⓔ MATHEMATICAL DOUBLE-STRUCK CAPITAL S  
**&sopf;** = Ⓢ MATHEMATICAL DOUBLE-STRUCK SMALL S  
**&spades;** = ♠ BLACK SPADE SUIT  
**&spadesuit;** = ♠ BLACK SPADE SUIT  
**&spar;** = ∥ PARALLEL TO  
**&sqcap;** = ☐ SQUARE CAP  
**&sqcaps;** = ☐ SQUARE CAP with serifs  
**&sqcup;** = ☐ SQUARE CUP  
**&sqcups;** = ☐ SQUARE CUP with serifs  
**&Sqrt;** = √ SQUARE ROOT  
**&sqsub;** = ☐ SQUARE IMAGE OF  
**&sqsube;** = ☐ SQUARE IMAGE OF OR EQUAL TO  
**&sqsubset;** = ☐ SQUARE IMAGE OF  
**&sqsubseteq;** = ☐ SQUARE IMAGE OF OR EQUAL TO  
**&sqsup;** = ☐ SQUARE ORIGINAL OF  
**&sqsupe;** = ☐ SQUARE ORIGINAL OF OR EQUAL TO  
**&sqsupset;** = ☐ SQUARE ORIGINAL OF  
**&sqsupseteq;** = ☐ SQUARE ORIGINAL OF OR EQUAL TO

**&squ;** = ◻ WHITE SQUARE  
**&Square;** = ◻ WHITE SQUARE  
**&square;** = ◻ WHITE SQUARE  
**&SquareIntersection;** = ◻ SQUARE CAP  
**&SquareSubset;** = ◻ SQUARE IMAGE OF  
**&SquareSubsetEqual;** = ◻ SQUARE IMAGE OF OR EQUAL TO  
**&SquareSuperset;** = ◻ SQUARE ORIGINAL OF  
**&SquareSupersetEqual;** = ◻ SQUARE ORIGINAL OF OR EQUAL TO  
**&SquareUnion;** = ∪ SQUARE CUP  
**&squarf;** = ■ BLACK SMALL SQUARE  
**&squf;** = ■ BLACK SMALL SQUARE  
**&srarr;** = → RIGHTWARDS ARROW  
**&Sscr;** = ℳ MATHEMATICAL SCRIPT CAPITAL S  
**&sscr;** = ℳ MATHEMATICAL SCRIPT SMALL S  
**&ssetmn;** = \ SET MINUS  
**&ssmile;** = ☺ SMILE  
**&sstarf;** = ★ STAR OPERATOR  
**&Star;** = ★ STAR OPERATOR  
**&star;** = ☆ WHITE STAR  
**&starf;** = ★ BLACK STAR  
**&straightepsilon;** = ε GREEK LUNATE EPSILON SYMBOL  
**&straightphi;** = φ GREEK PHI SYMBOL  
**&strns;** = ¯ MACRON  
**&Sub;** = ⊆ DOUBLE SUBSET  
**&sub;** = ⊂ SUBSET OF  
**&subdot;** = ⊂ SUBSET WITH DOT  
**&subE;** = ⊆ SUBSET OF ABOVE EQUALS SIGN  
**&subeq;** = ⊆ SUBSET OF OR EQUAL TO  
**&subedot;** = ⊂ SUBSET OF OR EQUAL TO WITH DOT ABOVE  
**&submult;** = ⊂ SUBSET WITH MULTIPLICATION SIGN BELOW  
**&subnE;** = ⊈ SUBSET OF ABOVE NOT EQUAL TO  
**&subne;** = ⊄ SUBSET OF WITH NOT EQUAL TO  
**&subplus;** = ⊂ SUBSET WITH PLUS SIGN BELOW  
**&subrarr;** = ⊂ SUBSET ABOVE RIGHTWARDS ARROW  
**&Subset;** = ⊆ DOUBLE SUBSET  
**&subset;** = ⊂ SUBSET OF  
**&subseteq;** = ⊆ SUBSET OF OR EQUAL TO  
**&subseteqq;** = ⊆ SUBSET OF ABOVE EQUALS SIGN  
**&SubsetEqual;** = ⊆ SUBSET OF OR EQUAL TO  
**&subsetneq;** = ⊄ SUBSET OF WITH NOT EQUAL TO  
**&subsetneqq;** = ⊈ SUBSET OF ABOVE NOT EQUAL TO  
**&subsim;** = ⊂ SUBSET OF ABOVE TILDE OPERATOR  
**&subsub;** = ⊂ SUBSET ABOVE SUBSET  
**&subsup;** = ⊂ SUBSET ABOVE SUPERSET  
**&succ;** = > SUCCEEDS  
**&succapprox;** = ≳ SUCCEEDS ABOVE ALMOST EQUAL TO  
**&succcurlyeq;** = ≳ SUCCEEDS OR EQUAL TO  
**&Succeeds;** = > SUCCEEDS  
**&SucceedsEqual;** = ≳ SUCCEEDS ABOVE SINGLE-LINE EQUALS SIGN  
**&SucceedsSlantEqual;** = ≳ SUCCEEDS OR EQUAL TO  
**&SucceedsTilde;** = ≳ SUCCEEDS OR EQUIVALENT TO  
**&succeq;** = ≳ SUCCEEDS ABOVE SINGLE-LINE EQUALS SIGN  
**&succnapprox;** = ≳ SUCCEEDS ABOVE NOT ALMOST EQUAL TO  
**&succneqq;** = ≳ SUCCEEDS ABOVE NOT EQUAL TO  
**&succnsim;** = ≳ SUCCEEDS BUT NOT EQUIVALENT TO  
**&sucsim;** = ≳ SUCCEEDS OR EQUIVALENT TO  
**&SuchThat;** = ∋ CONTAINS AS MEMBER  
**&Sum;** = ∑ N-ARY SUMMATION  
**&sum;** = ∑ N-ARY SUMMATION  
**&sung;** = ♯ EIGHTH NOTE  
**&Sup;** = ⊇ DOUBLE SUPERSET  
**&sup;** = ⊃ SUPERSET OF  
**&sup1;** = <sup>1</sup> SUPERSCRIPT ONE  
**&sup2;** = <sup>2</sup> SUPERSCRIPT TWO

**&sup3;** = <sup>3</sup> SUPERSCRIPT THREE  
**&supdot;** =  $\overset{\cdot}{\square}$  SUPERSET WITH DOT  
**&supdsub;** =  $\overset{\square}{-}$  SUPERSET BESIDE AND JOINED BY DASH WITH SUBSET  
**&supE;** =  $\overset{=}{\square}$  SUPERSET OF ABOVE EQUALS SIGN  
**&supe;** =  $\overset{\geq}{\square}$  SUPERSET OF OR EQUAL TO  
**&supedot;** =  $\overset{\cdot}{\square}$  SUPERSET OF OR EQUAL TO WITH DOT ABOVE  
**&Superset;** =  $\supset$  SUPERSET OF  
**&SupersetEqual;** =  $\supseteq$  SUPERSET OF OR EQUAL TO  
**&suphsol;** =  $\overset{\square}{/}$  SUPERSET PRECEDING SOLIDUS  
**&suphsub;** =  $\overset{\square}{\subseteq}$  SUPERSET BESIDE SUBSET  
**&suplarr;** =  $\overset{\square}{\leftarrow}$  SUPERSET ABOVE LEFTWARDS ARROW  
**&supmult;** =  $\overset{\square}{\times}$  SUPERSET WITH MULTIPLICATION SIGN BELOW  
**&supnE;** =  $\overset{\neq}{\square}$  SUPERSET OF ABOVE NOT EQUAL TO  
**&supne;** =  $\overset{\not\geq}{\square}$  SUPERSET OF WITH NOT EQUAL TO  
**&supplus;** =  $\overset{\square}{+}$  SUPERSET WITH PLUS SIGN BELOW  
**&Supset;** =  $\supseteq$  DOUBLE SUPERSET  
**&supset;** =  $\supset$  SUPERSET OF  
**&supseteq;** =  $\supseteq$  SUPERSET OF OR EQUAL TO  
**&supseteqq;** =  $\overset{=}{\square}$  SUPERSET OF ABOVE EQUALS SIGN  
**&supsetneq;** =  $\overset{\neq}{\square}$  SUPERSET OF WITH NOT EQUAL TO  
**&supsetneqq;** =  $\overset{\neq}{\square}$  SUPERSET OF ABOVE NOT EQUAL TO  
**&supsim;** =  $\overset{\sim}{\square}$  SUPERSET OF ABOVE TILDE OPERATOR  
**&supsub;** =  $\overset{\square}{\subseteq}$  SUPERSET ABOVE SUBSET  
**&supsup;** =  $\overset{\square}{\supset}$  SUPERSET ABOVE SUPERSET  
**&swarhk;** =  $\swarrow$  SOUTH WEST ARROW WITH HOOK  
**&swArr;** =  $\swarrow$  SOUTH WEST DOUBLE ARROW  
**&swarr;** =  $\swarrow$  SOUTH WEST ARROW  
**&swarrow;** =  $\swarrow$  SOUTH WEST ARROW  
**&swnwar;** =  $\swarrow$  SOUTH WEST ARROW AND NORTH WEST ARROW  
**&szlig;** =  $\text{\textcircled{S}}$  LATIN SMALL LETTER SHARP S  
**&Tab;** = CHARACTER TABULATION  
**&target;** =  $\square$  POSITION INDICATOR  
**&Tau;** =  $\text{\textcircled{T}}$  GREEK CAPITAL LETTER TAU  
**&tau;** =  $\text{\textcircled{t}}$  GREEK SMALL LETTER TAU  
**&tbrk;** =  $\square$  TOP SQUARE BRACKET  
**&Tcaron;** =  $\text{\textcircled{T}}$  LATIN CAPITAL LETTER T WITH CARON  
**&tcaron;** =  $\text{\textcircled{t}}$  LATIN SMALL LETTER T WITH CARON  
**&Tcedil;** =  $\text{\textcircled{T}}$  LATIN CAPITAL LETTER T WITH CEDILLA  
**&tcedil;** =  $\text{\textcircled{t}}$  LATIN SMALL LETTER T WITH CEDILLA  
**&Tcy;** =  $\text{\textcircled{T}}$  CYRILLIC CAPITAL LETTER TE  
**&tcy;** =  $\text{\textcircled{t}}$  CYRILLIC SMALL LETTER TE  
**&tdot;** =  $\overset{\cdot\cdot\cdot}{\square}$  COMBINING THREE DOTS ABOVE  
**&telrec;** =  $\square$  TELEPHONE RECORDER  
**&Tfr;** =  $\text{\textcircled{T}}$  MATHEMATICAL FRAKTUR CAPITAL T  
**&tfr;** =  $\text{\textcircled{t}}$  MATHEMATICAL FRAKTUR SMALL T  
**&there4;** =  $\therefore$  THEREFORE  
**&Therefore;** =  $\therefore$  THEREFORE  
**&therefore;** =  $\therefore$  THEREFORE  
**&Theta;** =  $\text{\textcircled{\Theta}}$  GREEK CAPITAL LETTER THETA  
**&theta;** =  $\text{\textcircled{\theta}}$  GREEK SMALL LETTER THETA  
**&thetasym;** =  $\text{\textcircled{\theta}}$  GREEK THETA SYMBOL  
**&thetav;** =  $\text{\textcircled{\theta}}$  GREEK THETA SYMBOL  
**&thickapprox;** =  $\approx$  ALMOST EQUAL TO  
**&thicksim;** =  $\sim$  TILDE OPERATOR  
**&ThickSpace;** = space of width 5/18 em  
**&thinsp;** = THIN SPACE  
**&ThinSpace;** = THIN SPACE  
**&thkap;** =  $\approx$  ALMOST EQUAL TO  
**&thksim;** =  $\sim$  TILDE OPERATOR  
**&THORN;** =  $\text{\textcircled{\text{P}}}$  LATIN CAPITAL LETTER THORN  
**&thorn;** =  $\text{\textcircled{\text{p}}}$  LATIN SMALL LETTER THORN  
**&Tilde;** =  $\sim$  TILDE OPERATOR  
**&tilde;** =  $\sim$  SMALL TILDE  
**&TildeEqual;** =  $\approx$  ASYMPTOTICALLY EQUAL TO

**&TildeFullEqual;** =  $\cong$  APPROXIMATELY EQUAL TO  
**&TildeTilde;** =  $\approx$  ALMOST EQUAL TO  
**&times;** =  $\times$  MULTIPLICATION SIGN  
**&timesb;** =  $\boxtimes$  SQUARED TIMES  
**&timesbar;** =  $\bar{\times}$  MULTIPLICATION SIGN WITH UNDERBAR  
**&timesd;** =  $\dot{\times}$  MULTIPLICATION SIGN WITH DOT ABOVE  
**&tint;** =  $\iiint$  TRIPLE INTEGRAL  
**&toea;** =  $\nearrow$  NORTH EAST ARROW AND SOUTH EAST ARROW  
**&top;** =  $\top$  DOWN TACK  
**&topbot;** =  $\boxplus$  APL FUNCTIONAL SYMBOL I-BEAM  
**&topcir;** =  $\textcircled{\top}$  DOWN TACK WITH CIRCLE BELOW  
**&Topf;** =  $\text{T}$  MATHEMATICAL DOUBLE-STRUCK CAPITAL T  
**&topf;** =  $\text{t}$  MATHEMATICAL DOUBLE-STRUCK SMALL T  
**&topfork;** =  $\pitchfork$  PITCHFORK WITH TEE TOP  
**&tosa;** =  $\searrow$  SOUTH EAST ARROW AND SOUTH WEST ARROW  
**&prime;** =  $'''$  TRIPLE PRIME  
**&TRADE;** =  $\text{™}$  TRADE MARK SIGN  
**&trade;** =  $\text{™}$  TRADE MARK SIGN  
**&triangle;** =  $\triangle$  WHITE UP-POINTING SMALL TRIANGLE  
**&triangledown;** =  $\nabla$  WHITE DOWN-POINTING SMALL TRIANGLE  
**&triangleleft;** =  $\triangleleft$  WHITE LEFT-POINTING SMALL TRIANGLE  
**&trianglelefteq;** =  $\trianglelefteq$  NORMAL SUBGROUP OF OR EQUAL TO  
**&triangleq;** =  $\triangleq$  DELTA EQUAL TO  
**&triangleright;** =  $\triangleright$  WHITE RIGHT-POINTING SMALL TRIANGLE  
**&trianglerighteq;** =  $\trianglerighteq$  CONTAINS AS NORMAL SUBGROUP OR EQUAL TO  
**&tridot;** =  $\triangle\cdot$  WHITE UP-POINTING TRIANGLE WITH DOT  
**&trie;** =  $\triangleq$  DELTA EQUAL TO  
**&triminus;** =  $\triangleleft$  MINUS SIGN IN TRIANGLE  
**&TripleDot;** =  $\text{⋯}$  COMBINING THREE DOTS ABOVE  
**&triplus;** =  $\triangleplus$  PLUS SIGN IN TRIANGLE  
**&trisb;** =  $\blacktriangle$  TRIANGLE WITH SERIFS AT BOTTOM  
**&tritime;** =  $\triangle$  MULTIPLICATION SIGN IN TRIANGLE  
**&trpezium;** =  $\square$  WHITE TRAPEZIUM  
**&Tscr;** =  $\mathcal{T}$  MATHEMATICAL SCRIPT CAPITAL T  
**&tscr;** =  $\mathcal{T}$  MATHEMATICAL SCRIPT SMALL T  
**&TScy;** =  $\text{Т}$  CYRILLIC CAPITAL LETTER TSE  
**&tscy;** =  $\text{т}$  CYRILLIC SMALL LETTER TSE  
**&TSHcy;** =  $\text{Ѥ}$  CYRILLIC CAPITAL LETTER TSHE  
**&tshcy;** =  $\text{ѥ}$  CYRILLIC SMALL LETTER TSHE  
**&Tstrok;** =  $\text{Ƨ}$  LATIN CAPITAL LETTER T WITH STROKE  
**&tstrok;** =  $\text{Ƨ}$  LATIN SMALL LETTER T WITH STROKE  
**&twixt;** =  $\text{⋈}$  BETWEEN  
**&twoheadleftarrow;** =  $\leftarrow$  LEFTWARDS TWO HEADED ARROW  
**&twoheadrightarrow;** =  $\rightarrow$  RIGHTWARDS TWO HEADED ARROW  
**&Uacute;** =  $\text{Ú}$  LATIN CAPITAL LETTER U WITH ACUTE  
**&uacute;** =  $\text{ú}$  LATIN SMALL LETTER U WITH ACUTE  
**&Uarr;** =  $\Uparrow$  UPWARDS TWO HEADED ARROW  
**&uArr;** =  $\uparrow$  UPWARDS DOUBLE ARROW  
**&uarr;** =  $\uparrow$  UPWARDS ARROW  
**&Uarroccir;** =  $\curvearrowright$  UPWARDS TWO-HEADED ARROW FROM SMALL CIRCLE  
**&Ubrcy;** =  $\text{Ѹ}$  CYRILLIC CAPITAL LETTER SHORT U  
**&ubrcy;** =  $\text{ѹ}$  CYRILLIC SMALL LETTER SHORT U  
**&Ubreve;** =  $\text{Ū}$  LATIN CAPITAL LETTER U WITH BREVE  
**&ubreve;** =  $\text{ū}$  LATIN SMALL LETTER U WITH BREVE  
**&Ucirc;** =  $\text{Ū}$  LATIN CAPITAL LETTER U WITH CIRCUMFLEX  
**&ucirc;** =  $\text{ū}$  LATIN SMALL LETTER U WITH CIRCUMFLEX  
**&Ucy;** =  $\text{У}$  CYRILLIC CAPITAL LETTER U  
**&ucy;** =  $\text{у}$  CYRILLIC SMALL LETTER U  
**&udarr;** =  $\text{↕}$  UPWARDS ARROW LEFTWARDS OF DOWNWARDS ARROW  
**&Udblac;** =  $\text{Ŭ}$  LATIN CAPITAL LETTER U WITH DOUBLE ACUTE  
**&udblac;** =  $\text{ŭ}$  LATIN SMALL LETTER U WITH DOUBLE ACUTE  
**&udhar;** =  $\text{↗}$  UPWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT  
**&ufisht;** =  $\text{↗}$  UP FISH TAIL  
**&Ufr;** =  $\text{U}$  MATHEMATICAL FRAKTUR CAPITAL U

**&ufr;** =  MATHEMATICAL FRAKTUR SMALL U  
**&Ugrave;** =  LATIN CAPITAL LETTER U WITH GRAVE  
**&ugrave;** =  LATIN SMALL LETTER U WITH GRAVE  
**&uHar;** =  UPWARDS HARPOON WITH BARB LEFT BESIDE UPWARDS HARPOON WITH BARB RIGHT  
**&uharl;** =  UPWARDS HARPOON WITH BARB LEFTWARDS  
**&uharr;** =  UPWARDS HARPOON WITH BARB RIGHTWARDS  
**&uhblk;** =  UPPER HALF BLOCK  
**&ulcorn;** =  TOP LEFT CORNER  
**&ulcorner;** =  TOP LEFT CORNER  
**&ulcrop;** =  TOP LEFT CROP  
**&ultri;** =  UPPER LEFT TRIANGLE  
**&Umacr;** =  LATIN CAPITAL LETTER U WITH MACRON  
**&umacr;** =  LATIN SMALL LETTER U WITH MACRON  
**&uml;** =  DIAERESIS  
**&UnderBar;** =  LOW LINE  
**&UnderBrace;** =  BOTTOM CURLY BRACKET  
**&UnderBracket;** =  BOTTOM SQUARE BRACKET  
**&UnderParenthesis;** =  BOTTOM PARENTHESIS  
**&Union;** =  N-ARY UNION  
**&UnionPlus;** =  MULTISSET UNION  
**&Uogon;** =  LATIN CAPITAL LETTER U WITH OGONEK  
**&uogon;** =  LATIN SMALL LETTER U WITH OGONEK  
**&Uopf;** =  MATHEMATICAL DOUBLE-STRUCK CAPITAL U  
**&uopf;** =  MATHEMATICAL DOUBLE-STRUCK SMALL U  
**&UpArrow;** =  UPWARDS ARROW  
**&Uparrow;** =  UPWARDS DOUBLE ARROW  
**&uparrow;** =  UPWARDS ARROW  
**&UpArrowBar;** =  UPWARDS ARROW TO BAR  
**&UpArrowDownArrow;** =  UPWARDS ARROW LEFTWARDS OF DOWNWARDS ARROW  
**&UpDownArrow;** =  UP DOWN ARROW  
**&Updownarrow;** =  UP DOWN DOUBLE ARROW  
**&updownarrow;** =  UP DOWN ARROW  
**&UpEquilibrium;** =  UPWARDS HARPOON WITH BARB LEFT BESIDE DOWNWARDS HARPOON WITH BARB RIGHT  
**&upharpoonleft;** =  UPWARDS HARPOON WITH BARB LEFTWARDS  
**&upharpoonright;** =  UPWARDS HARPOON WITH BARB RIGHTWARDS  
**&uplus;** =  MULTISSET UNION  
**&UpperLeftArrow;** =  NORTH WEST ARROW  
**&UpperRightArrow;** =  NORTH EAST ARROW  
**&Upsi;** =  GREEK UPSILON WITH HOOK SYMBOL  
**&upsi;** =  GREEK SMALL LETTER UPSILON  
**&upsih;** =  GREEK UPSILON WITH HOOK SYMBOL  
**&Upsilon;** =  GREEK CAPITAL LETTER UPSILON  
**&upsilon;** =  GREEK SMALL LETTER UPSILON  
**&UpTee;** =  UP TACK  
**&UpTeeArrow;** =  UPWARDS ARROW FROM BAR  
**&upuparrows;** =  UPWARDS PAIRED ARROWS  
**&urcorn;** =  TOP RIGHT CORNER  
**&urcorner;** =  TOP RIGHT CORNER  
**&urcrop;** =  TOP RIGHT CROP  
**&Uring;** =  LATIN CAPITAL LETTER U WITH RING ABOVE  
**&uring;** =  LATIN SMALL LETTER U WITH RING ABOVE  
**&urtri;** =  UPPER RIGHT TRIANGLE  
**&Uscr;** =  MATHEMATICAL SCRIPT CAPITAL U  
**&uscr;** =  MATHEMATICAL SCRIPT SMALL U  
**&utdot;** =  UP RIGHT DIAGONAL ELLIPSIS  
**&Utilde;** =  LATIN CAPITAL LETTER U WITH TILDE  
**&utilde;** =  LATIN SMALL LETTER U WITH TILDE  
**&utri;** =  WHITE UP-POINTING SMALL TRIANGLE  
**&utrif;** =  BLACK UP-POINTING SMALL TRIANGLE  
**&uuarr;** =  UPWARDS PAIRED ARROWS  
**&Uuml;** =  LATIN CAPITAL LETTER U WITH DIAERESIS  
**&uuml;** =  LATIN SMALL LETTER U WITH DIAERESIS  
**&uwangle;** =  OBLIQUE ANGLE OPENING DOWN

**&vangrt;** =  $\sphericalangle$  RIGHT ANGLE VARIANT WITH SQUARE  
**&varepsilon;** =  $\epsilon$  GREEK LUNATE EPSILON SYMBOL  
**&varkappa;** =  $\kappa$  GREEK KAPPA SYMBOL  
**&varnothing;** =  $\emptyset$  EMPTY SET  
**&varphi;** =  $\phi$  GREEK PHI SYMBOL  
**&varpi;** =  $\pi$  GREEK PI SYMBOL  
**&varpropto;** =  $\propto$  PROPORTIONAL TO  
**&vArr;** =  $\Updownarrow$  UP DOWN DOUBLE ARROW  
**&varr;** =  $\updownarrow$  UP DOWN ARROW  
**&varrho;** =  $\rho$  GREEK RHO SYMBOL  
**&varsigma;** =  $\varsigma$  GREEK SMALL LETTER FINAL SIGMA  
**&varsubsetneq;** =  $\subsetneq$  SUBSET OF WITH NOT EQUAL TO - variant with stroke through bottom members  
**&varsubsetneqq;** =  $\subsetneqq$  SUBSET OF ABOVE NOT EQUAL TO - variant with stroke through bottom members  
**&varsupsetneq;** =  $\supsetneq$  SUPERSET OF WITH NOT EQUAL TO - variant with stroke through bottom members  
**&varsupsetneqq;** =  $\supsetneqq$  SUPERSET OF ABOVE NOT EQUAL TO - variant with stroke through bottom members  
**&vartheta;** =  $\theta$  GREEK THETA SYMBOL  
**&vartriangleleft;** =  $\triangleleft$  NORMAL SUBGROUP OF  
**&vartriangleright;** =  $\triangleright$  CONTAINS AS NORMAL SUBGROUP  
**&Vbar;** =  $\bar{\bar{\phantom{V}}}$  DOUBLE UP TACK  
**&vBar;** =  $\bar{\phantom{v}}$  SHORT UP TACK WITH UNDERBAR  
**&vBarv;** =  $\bar{\phantom{v}}\bar{\phantom{v}}$  SHORT UP TACK ABOVE SHORT DOWN TACK  
**&Vcy;** = **В** CYRILLIC CAPITAL LETTER VE  
**&vcy;** = **в** CYRILLIC SMALL LETTER VE  
**&VDash;** =  $\Vdash$  DOUBLE VERTICAL BAR DOUBLE RIGHT TURNSTILE  
**&Vdash;** =  $\Vdash$  FORCES  
**&vDash;** =  $\vDash$  TRUE  
**&vdash;** =  $\dashv$  RIGHT TACK  
**&Vdashl;** =  $\Vdashl$  LONG DASH FROM LEFT MEMBER OF DOUBLE VERTICAL  
**&Vee;** =  $\vee$  N-ARY LOGICAL OR  
**&vee;** =  $\vee$  LOGICAL OR  
**&veebar;** =  $\veebar$  XOR  
**&veeeq;** =  $\simeq$  EQUIANGULAR TO  
**&vellip;** =  $\vdots$  VERTICAL ELLIPSIS  
**&Verbar;** =  $\|$  DOUBLE VERTICAL LINE  
**&verbar;** =  $|$  VERTICAL LINE  
**&Vert;** =  $\|$  DOUBLE VERTICAL LINE  
**&vert;** =  $|$  VERTICAL LINE  
**&VerticalBar;** =  $\mid$  DIVIDES  
**&VerticalLine;** =  $|$  VERTICAL LINE  
**&VerticalSeparator;** =  $|$  LIGHT VERTICAL BAR  
**&VerticalTilde;** =  $\tilde{\phantom{V}}$  WREATH PRODUCT  
**&VeryThinSpace;** = HAIR SPACE  
**&Vfr;** =  $\mathfrak{V}$  MATHEMATICAL FRAKTUR CAPITAL V  
**&vfr;** =  $\mathfrak{v}$  MATHEMATICAL FRAKTUR SMALL V  
**&vltri;** =  $\triangleleft$  NORMAL SUBGROUP OF  
**&vnsub;** =  $\subsetneq$  SUBSET OF with vertical line  
**&vnsup;** =  $\supsetneq$  SUPERSET OF with vertical line  
**&Vopf;** =  $\mathbb{V}$  MATHEMATICAL DOUBLE-STRUCK CAPITAL V  
**&vopf;** =  $\mathbb{v}$  MATHEMATICAL DOUBLE-STRUCK SMALL V  
**&vprop;** =  $\propto$  PROPORTIONAL TO  
**&vrtri;** =  $\triangleright$  CONTAINS AS NORMAL SUBGROUP  
**&Vscr;** =  $\mathfrak{V}$  MATHEMATICAL SCRIPT CAPITAL V  
**&vscr;** =  $\mathfrak{v}$  MATHEMATICAL SCRIPT SMALL V  
**&vsubnE;** =  $\subsetneq$  SUBSET OF ABOVE NOT EQUAL TO - variant with stroke through bottom members  
**&vsubneq;** =  $\subsetneq$  SUBSET OF WITH NOT EQUAL TO - variant with stroke through bottom members  
**&vsupnE;** =  $\supsetneq$  SUPERSET OF ABOVE NOT EQUAL TO - variant with stroke through bottom members  
**&vsupneq;** =  $\supsetneq$  SUPERSET OF WITH NOT EQUAL TO - variant with stroke through bottom members  
**&Vvdash;** =  $\Vdash$  TRIPLE VERTICAL BAR RIGHT TURNSTILE  
**&vzigzag;** =  $\zigzag$  VERTICAL ZIGZAG LINE  
**&Wcirc;** =  $\mathring{W}$  LATIN CAPITAL LETTER W WITH CIRCUMFLEX  
**&wcirc;** =  $\mathring{w}$  LATIN SMALL LETTER W WITH CIRCUMFLEX  
**&wedbar;** =  $\bar{\wedge}$  LOGICAL AND WITH UNDERBAR  
**&Wedge;** =  $\wedge$  N-ARY LOGICAL AND



**&wedge;** =  $\wedge$  LOGICAL AND  
**&wedgeq;** =  $\triangleq$  ESTIMATES  
**&weierp;** =  $\wp$  SCRIPT CAPITAL P  
**&Wfr;** =  $\mathbb{W}$  MATHEMATICAL FRAKTUR CAPITAL W  
**&wfr;** =  $\mathbb{w}$  MATHEMATICAL FRAKTUR SMALL W  
**&Wopf;** =  $\mathbb{W}$  MATHEMATICAL DOUBLE-STRUCK CAPITAL W  
**&wopf;** =  $\mathbb{w}$  MATHEMATICAL DOUBLE-STRUCK SMALL W  
**&wp;** =  $\wp$  SCRIPT CAPITAL P  
**&wr;** =  $\wr$  WREATH PRODUCT  
**&wreath;** =  $\wr$  WREATH PRODUCT  
**&Wscr;** =  $\mathbb{W}$  MATHEMATICAL SCRIPT CAPITAL W  
**&wscr;** =  $\mathbb{w}$  MATHEMATICAL SCRIPT SMALL W  
**&xcap;** =  $\cap$  N-ARY INTERSECTION  
**&xcirc;** =  $\bigcirc$  LARGE CIRCLE  
**&xcup;** =  $\cup$  N-ARY UNION  
**&xdtri;** =  $\nabla$  WHITE DOWN-POINTING TRIANGLE  
**&Xfr;** =  $\mathbb{X}$  MATHEMATICAL FRAKTUR CAPITAL X  
**&xfr;** =  $\mathbb{x}$  MATHEMATICAL FRAKTUR SMALL X  
**&xhArr;** =  $\longleftrightarrow$  LONG LEFT RIGHT DOUBLE ARROW  
**&xharr;** =  $\longleftrightarrow$  LONG LEFT RIGHT ARROW  
**&Xi;** =  $\Xi$  GREEK CAPITAL LETTER XI  
**&xi;** =  $\xi$  GREEK SMALL LETTER XI  
**&xlArr;** =  $\longleftarrow$  LONG LEFTWARDS DOUBLE ARROW  
**&xlarr;** =  $\longleftarrow$  LONG LEFTWARDS ARROW  
**&xmap;** =  $\mapsto$  LONG RIGHTWARDS ARROW FROM BAR  
**&xnis;** =  $\ni$  CONTAINS WITH VERTICAL BAR AT END OF HORIZONTAL STROKE  
**&xodot;** =  $\odot$  N-ARY CIRCLED DOT OPERATOR  
**&Xopf;** =  $\mathbb{X}$  MATHEMATICAL DOUBLE-STRUCK CAPITAL X  
**&xopf;** =  $\mathbb{x}$  MATHEMATICAL DOUBLE-STRUCK SMALL X  
**&xoplus;** =  $\oplus$  N-ARY CIRCLED PLUS OPERATOR  
**&xotime;** =  $\otimes$  N-ARY CIRCLED TIMES OPERATOR  
**&xrArr;** =  $\longrightarrow$  LONG RIGHTWARDS DOUBLE ARROW  
**&xrarr;** =  $\longrightarrow$  LONG RIGHTWARDS ARROW  
**&Xscr;** =  $\mathbb{X}$  MATHEMATICAL SCRIPT CAPITAL X  
**&xscr;** =  $\mathbb{x}$  MATHEMATICAL SCRIPT SMALL X  
**&xscup;** =  $\sqcup$  N-ARY SQUARE UNION OPERATOR  
**&xuplus;** =  $\sqcup$  N-ARY UNION OPERATOR WITH PLUS  
**&xutri;** =  $\triangle$  WHITE UP-POINTING TRIANGLE  
**&xvee;** =  $\vee$  N-ARY LOGICAL OR  
**&xwedge;** =  $\wedge$  N-ARY LOGICAL AND  
**&Yacute;** =  $\acute{Y}$  LATIN CAPITAL LETTER Y WITH ACUTE  
**&yacute;** =  $\acute{y}$  LATIN SMALL LETTER Y WITH ACUTE  
**&YAcy;** =  $\text{Я}$  CYRILLIC CAPITAL LETTER YA  
**&yacy;** =  $\text{я}$  CYRILLIC SMALL LETTER YA  
**&Ycirc;** =  $\mathring{Y}$  LATIN CAPITAL LETTER Y WITH CIRCUMFLEX  
**&ycirc;** =  $\mathring{y}$  LATIN SMALL LETTER Y WITH CIRCUMFLEX  
**&Ycy;** =  $\text{Ѡ}$  CYRILLIC CAPITAL LETTER YERU  
**&ycy;** =  $\text{ѡ}$  CYRILLIC SMALL LETTER YERU  
**&yen;** =  $\text{¥}$  YEN SIGN  
**&Yfr;** =  $\mathbb{Y}$  MATHEMATICAL FRAKTUR CAPITAL Y  
**&yfr;** =  $\mathbb{y}$  MATHEMATICAL FRAKTUR SMALL Y  
**&Ylcy;** =  $\text{Й}$  CYRILLIC CAPITAL LETTER YI  
**&yicy;** =  $\text{й}$  CYRILLIC SMALL LETTER YI  
**&Yopf;** =  $\mathbb{Y}$  MATHEMATICAL DOUBLE-STRUCK CAPITAL Y  
**&yopf;** =  $\mathbb{y}$  MATHEMATICAL DOUBLE-STRUCK SMALL Y  
**&Yscr;** =  $\mathbb{Y}$  MATHEMATICAL SCRIPT CAPITAL Y  
**&yscr;** =  $\mathbb{y}$  MATHEMATICAL SCRIPT SMALL Y  
**&YUcy;** =  $\text{Ѳ}$  CYRILLIC CAPITAL LETTER YU  
**&yucy;** =  $\text{ѳ}$  CYRILLIC SMALL LETTER YU  
**&Yuml;** =  $\text{ÿ}$  LATIN CAPITAL LETTER Y WITH DIAERESIS  
**&yuml;** =  $\text{ÿ}$  LATIN SMALL LETTER Y WITH DIAERESIS  
**&Zacute;** =  $\acute{Z}$  LATIN CAPITAL LETTER Z WITH ACUTE  
**&zacute;** =  $\acute{z}$  LATIN SMALL LETTER Z WITH ACUTE  
**&Zcaron;** =  $\text{Ž}$  LATIN CAPITAL LETTER Z WITH CARON

**&zcaron;** = ž LATIN SMALL LETTER Z WITH CARON  
**&Zcy;** = З CYRILLIC CAPITAL LETTER ZE  
**&zcy;** = з CYRILLIC SMALL LETTER ZE  
**&Zdot;** = Ž LATIN CAPITAL LETTER Z WITH DOT ABOVE  
**&zdot;** = ž LATIN SMALL LETTER Z WITH DOT ABOVE  
**&zeetrf;** = Ƶ BLACK-LETTER CAPITAL Z  
**&ZeroWidthSpace;** = ZERO WIDTH SPACE  
**&Zeta;** = Ζ GREEK CAPITAL LETTER ZETA  
**&zeta;** = ζ GREEK SMALL LETTER ZETA  
**&Zfr;** = Ƶ BLACK-LETTER CAPITAL Z  
**&zfr;** = ƶ MATHEMATICAL FRAKTUR SMALL Z  
**&ZHcy;** = ЗH CYRILLIC CAPITAL LETTER ZHE  
**&zncy;** = зH CYRILLIC SMALL LETTER ZHE  
**&zigrarr;** = ⇨ RIGHTWARDS SQUIGGLE ARROW  
**&Zopf;** = ℤ DOUBLE-STRUCK CAPITAL Z  
**&zopf;** = ℤ MATHEMATICAL DOUBLE-STRUCK SMALL Z  
**&Zscr;** = ℤ MATHEMATICAL SCRIPT CAPITAL Z  
**&zscr;** = ℤ MATHEMATICAL SCRIPT SMALL Z  
**&zwj;** = ZERO WIDTH JOINER  
**&zwnj;** = ZERO WIDTH NON-JOINER