ny—-

[x << testy $\stackrel{\text{tex}}{=}$ "#1.
<<test#2."]

[<< testMacro(t) $\stackrel{\text{tex}}{=}$ "<<testMacro(#1.
)"]

([x << testy $\stackrel{\text{macro}}{\rightarrow}$ $\lambda$t.$\lambda$s.$\lambda$c. << testMacro($\mathsf{t}^{\mathrm{h}}$ :: ExpandList($\mathsf{t}^{\mathrm{t}}$, s, c))])$^{\mathrm{P}}$

[<< testMacro(t) $\stackrel{\text{val}}{\rightarrow}$ $\tilde{\mathcal{Q}}$(t, $\lceil$x$\rceil$, ($\lceil$x$\rceil$ :: $\mathsf{t}^{222121222111111}$) :: T)]

(*****)

R(a) + +R(b) 1

R(a) + +R(b) + +R(c) 2

(− − R(a)) 3

(− − {ph $\in$ Tester3 | SF(a, Tester4)}) 4

(− − (− − R(a))) 5

(− − (− − (− − (− − (− − R(a)))))) 6

R(a) ∗ ∗R(b) 7

R(a $*_{\mathrm{f}}$ b) 8

R(FX) ∗ ∗R(0f) 8a

R(FX $*_{\mathrm{f}}$ 0f) 8b

R(a) ∗ ∗R(b) ∗ ∗R(c) 8

(− − R(a)) ∗ ∗R(b) + +R(c) 9

R(a) ∗ ∗R(b) ∗ ∗R(c) << (− − R(a)) ∗ ∗R(b) + +R(c) 10

(− − (− − (− − (− − (− − R(a)))))) << R(b) + +R(b) + +R(c) 11

R(a) 12

R(b) 13

R(a) << R(b) 14

R(a) << testR(b) 15

venter—-

**Priority table**

**Preassociative**

[prove], [base], [bracket ∗ end bracket], [big bracket ∗ end bracket], [ $ ∗ $ ], [**flush left** ∗]], [x], [y], [z], [[∗ $\bowtie$ ∗]], [[∗ $\stackrel{*}{\rightarrow}$ ∗]], [pyk], [tex], [name], [prio], [∗], [T], [if(∗, ∗, ∗)], [[∗ $\stackrel{*}{\Rightarrow}$ ∗]], [val], [claim], [⊥], [f(∗)], [(∗)$^{\mathrm{I}}$], [F], [0], [1], [2], [3], [4], [5], [6], [7], [8], [9], [0], [1], [2], [3], [4], [5], [6], [7], [8], [9], [a], [b], [c], [d], [e], [f], [g], [h], [i], [j], [k], [l], [m], [n], [o], [p], [q], [r], [s], [t], [u], [v], [w], [(∗)$^{\mathrm{M}}$], [If(∗, ∗, ∗)], [array{∗} ∗ end array], [l], [c], [r], [empty], [⟨∗ | ∗ := ∗⟩], [$\mathcal{M}$(∗)], [$\tilde{\mathcal{U}}$(∗)], [$\mathcal{U}$(∗)], [$\mathcal{U}^{\mathrm{M}}$(∗)], [**apply**(∗, ∗)], [**apply**$_1$(∗, ∗)], [identifier(∗)], [identifier$_1$(∗, ∗)], [array-plus(∗, ∗)], [array-remove(∗, ∗, ∗)], [array-put(∗, ∗, ∗, ∗)], [array-add(∗, ∗, ∗, ∗, ∗)], [bit(∗, ∗)], [bit$_1$(∗, ∗)], [rack], ["vector"], ["bibliography"], ["dictionary"], ["body"], ["codex"], ["expansion"], ["code"], ["cache"], ["diagnose"], ["pyk"], ["tex"], ["texname"], ["value"], ["message"], ["macro"], ["definition"], ["unpack"], ["claim"], ["priority"], ["lambda"], ["apply"], ["true"], ["if"], ["quote"], ["proclaim"], ["define"], ["introduce"], ["hide"], ["pre"], ["post"], [$\mathcal{E}$(∗, ∗, ∗)], [$\mathcal{E}_2$(∗, ∗, ∗, ∗, ∗)], [$\mathcal{E}_3$(∗, ∗, ∗, ∗)], [$\mathcal{E}_4$(∗, ∗, ∗, ∗)], [**lookup**(∗, ∗, ∗)], [**abstract**(∗, ∗, ∗, ∗)], [$\lceil$∗$\rceil$], [$\mathcal{M}$(∗, ∗, ∗)], [$\mathcal{M}_2$(∗, ∗, ∗, ∗)], [$\mathcal{M}^*$(∗, ∗, ∗)], [macro],

$[\mathrm{s}_0]$, $[\mathbf{zip}(*,*)]$, $[\mathbf{assoc}_1(*,*,*)]$, $[(*)^{\mathrm{p}}]$, [self], $[[* \doteqdot *]]$, $[[* \doteq *]]$, $[[* \doteq *]]$,
$[[* \overset{\mathrm{pyk}}{=} *]]$, $[[* \overset{\mathrm{tex}}{=} *]]$, $[[* \overset{\mathrm{name}}{=} *]]$, [**Priority table**$[*]$], $[\tilde{\mathcal{M}}_1]$, $[\tilde{\mathcal{M}}_2(*)]$, $[\tilde{\mathcal{M}}_3(*)]$,
$[\tilde{\mathcal{M}}_4(*,*,*,*)]$, $[\tilde{\mathcal{M}}(*,*,*)]$, $[\tilde{\mathcal{Q}}(*,*,*)]$, $[\tilde{\mathcal{Q}}_2(*,*,*)]$, $[\tilde{\mathcal{Q}}_3(*,*,*,*)]$, $[\tilde{\mathcal{Q}}^*(*,*,*)]$,
$[(*)]$, $[(*)]$, [display$(*)$], [statement$(*)$], $[[*]^{\cdot}]$, $[[*]^{-}]$, [**aspect**$(*,*)$],
[**aspect**$(*,*,*)$], $[\langle * \rangle]$, [**tuple**$_1(*)$], [**tuple**$_2(*)$], [let$_2(*,*)$], [let$_1(*,*)$],
$[[* \overset{\mathrm{claim}}{=} *]]$, [checker], [**check**$(*,*)$], [**check**$_2(*,*,*)$], [**check**$_3(*,*,*)$],
[**check**$^*(*,*)$], [**check**$^*_2(*,*,*)$], $[[*]^{\cdot}]$, $[[*]^{-}]$, $[[*]^{\circ}]$, [msg], $[[* \overset{\mathrm{msg}}{=} *]]$, [<stmt>],
[stmt], $[[* \overset{\mathrm{stmt}}{=} *]]$, [HeadNil$'$], [HeadPair$'$], [Transitivity$'$], $[\perp\!\!\!\perp]$, [Contra$'$], $[\mathrm{T}'_{\mathrm{E}}]$,
$[\mathrm{L}_1]$, $[\underline{*}]$, $[\mathcal{A}]$, $[\mathcal{B}]$, $[\mathcal{C}]$, $[\mathcal{D}]$, $[\mathcal{E}]$, $[\mathcal{F}]$, $[\mathcal{G}]$, $[\mathcal{H}]$, $[\mathcal{I}]$, $[\mathcal{J}]$, $[\mathcal{K}]$, $[\mathcal{L}]$, $[\mathcal{M}]$, $[\mathcal{N}]$, $[\mathcal{O}]$, $[\mathcal{P}]$, $[\mathcal{Q}]$,
$[\mathcal{R}]$, $[\mathcal{S}]$, $[\mathcal{T}]$, $[\mathcal{U}]$, $[\mathcal{V}]$, $[\mathcal{W}]$, $[\mathcal{X}]$, $[\mathcal{Y}]$, $[\mathcal{Z}]$, $[\langle * \mid * := * \rangle]$, $[\langle {}^{*} * \mid * := * \rangle]$, $[\emptyset]$, [Remainder],
$[(*)^{\mathbf{v}}]$, [intro$(*,*,*,*)$], [intro$(*,*,*)$], [error$(*,*)$], [error$_2(*,*)$], [proof$(*,*,*)$],
[proof$_2(*,*)$], $[\mathcal{S}(*,*)]$, $[\mathcal{S}^{\mathrm{I}}(*,*)]$, $[\mathcal{S}^{\triangleright}(*,*)]$, $[\mathcal{S}^{\triangleright}_1(*,*,*)]$, $[\mathcal{S}^{\mathrm{E}}(*,*)]$, $[\mathcal{S}^{\mathrm{E}}_1(*,*,*)]$,
$[\mathcal{S}^{+}(*,*)]$, $[\mathcal{S}^{+}_1(*,*,*)]$, $[\mathcal{S}^{-}(*,*)]$, $[\mathcal{S}^{-}_1(*,*,*)]$, $[\mathcal{S}^{*}(*,*)]$, $[\mathcal{S}^{*}_1(*,*,*)]$,
$[\mathcal{S}^{*}_2(*,*,*,*)]$, $[\mathcal{S}^{@}(*,*)]$, $[\mathcal{S}^{@}_1(*,*,*)]$, $[\mathcal{S}^{\vdash}(*,*)]$, $[\mathcal{S}^{\vdash}_1(*,*,*,*)]$, $[\mathcal{S}^{\Vdash}(*,*)]$,
$[\mathcal{S}^{\Vdash}_1(*,*,*,*)]$, $[\mathcal{S}^{\mathrm{i.e.}}(*,*)]$, $[\mathcal{S}^{\mathrm{i.e.}}_1(*,*,*,*)]$, $[\mathcal{S}^{\mathrm{i.e.}}_2(*,*,*,*,*)]$, $[\mathcal{S}^{\forall}(*,*)]$,
$[\mathcal{S}^{\forall}_1(*,*,*,*)]$, $[\mathcal{S}^{:}(*,*)]$, $[\mathcal{S}^{:}_1(*,*,*)]$, $[\mathcal{S}^{:}_2(*,*,*,*)]$, $[\mathcal{T}(*)]$, [claims$(*,*,*)$],
[claims$_2(*,*,*)$], [<proof>], [proof], [[**Lemma** $*$: $*$]], [[**Proof of** $*$: $*$]],
[[$*$ **lemma** $*$: $*$]], [[$*$ **antilemma** $*$: $*$]], [[$*$ **rule** $*$: $*$]], [[$*$ **antirule** $*$: $*$]],
[verifier], $[\mathcal{V}_1(*)]$, $[\mathcal{V}_2(*,*)]$, $[\mathcal{V}_3(*,*,*,*)]$, $[\mathcal{V}_4(*,*)]$, $[\mathcal{V}_5(*,*,*,*)]$, $[\mathcal{V}_6(*,*,*,*)]$,
$[\mathcal{V}_7(*,*,*,*)]$, [Cut$(*,*)$], [Head$_{\oplus}(*)$], [Tail$_{\oplus}(*)$], [rule$_1(*,*)$], [rule$(*,*)$],
[Rule tactic], [Plus$(*,*)$], [[**Theory** $*$]], [theory$_2(*,*)$], [theory$_3(*,*)$],
[theory$_4(*,*,*)$], [HeadNil$''$], [HeadPair$''$], [Transitivity$''$], [Contra$''$], [HeadNil],
[HeadPair], [Transitivity], [Contra], $[\mathrm{T}_{\mathrm{E}}]$, [ragged right],
[ragged right expansion ], [parm$(*,*,*)$], [parm$^*(*,*,*)$], [inst$(*,*)$],
[inst$^*(*,*)$], [occur$(*,*,*)$], [occur$^*(*,*,*)$], [unify$(* = *,*)$], [unify$^*(* = *,*)$],
[unify$_2(* = *,*)$], $[\mathrm{L_a}]$, $[\mathrm{L_b}]$, $[\mathrm{L_c}]$, $[\mathrm{L_d}]$, $[\mathrm{L_e}]$, $[\mathrm{L_f}]$, $[\mathrm{L_g}]$, $[\mathrm{L_h}]$, $[\mathrm{L_i}]$, $[\mathrm{L_j}]$, $[\mathrm{L_k}]$, $[\mathrm{L_l}]$, $[\mathrm{L_m}]$,
$[\mathrm{L_n}]$, $[\mathrm{L_o}]$, $[\mathrm{L_p}]$, $[\mathrm{L_q}]$, $[\mathrm{L_r}]$, $[\mathrm{L_s}]$, $[\mathrm{L_t}]$, $[\mathrm{L_u}]$, $[\mathrm{L_v}]$, $[\mathrm{L_w}]$, $[\mathrm{L_x}]$, $[\mathrm{L_y}]$, $[\mathrm{L_z}]$, $[\mathrm{L_A}]$, $[\mathrm{L_B}]$, $[\mathrm{L_C}]$,
$[\mathrm{L_D}]$, $[\mathrm{L_E}]$, $[\mathrm{L_F}]$, $[\mathrm{L_G}]$, $[\mathrm{L_H}]$, $[\mathrm{L_I}]$, $[\mathrm{L_J}]$, $[\mathrm{L_K}]$, $[\mathrm{L_L}]$, $[\mathrm{L_M}]$, $[\mathrm{L_N}]$, $[\mathrm{L_O}]$, $[\mathrm{L_P}]$, $[\mathrm{L_Q}]$, $[\mathrm{L_R}]$,
$[\mathrm{L_S}]$, $[\mathrm{L_T}]$, $[\mathrm{L_U}]$, $[\mathrm{L_V}]$, $[\mathrm{L_W}]$, $[\mathrm{L_X}]$, $[\mathrm{L_Y}]$, $[\mathrm{L_Z}]$, $[\mathrm{L}_?]$, [Reflexivity], [Reflexivity$_1$],
[Commutativity], [Commutativity$_1$], [<tactic>], [tactic], $[[* \overset{\mathrm{tactic}}{=} *]]$, $[\mathcal{P}(*,*,*)]$,
$[\mathcal{P}^*(*,*,*)]$, $[\mathrm{p}_0]$, [conclude$_1(*,*)$], [conclude$_2(*,*,*)$], [conclude$_3(*,*,*,*)$],
[conclude$_4(*,*)$], [check], $[[* \overset{\circ}{=} *]]$, [RootVisible$(*)$], [A], [R], [C], [T], [L], $[\{*\}]$, $[\overline{*}]$,
$[a]$, $[b]$, $[c]$, $[d]$, $[e]$, $[f]$, $[g]$, $[h]$, $[i]$, $[j]$, $[k]$, $[l]$, $[m]$, $[n]$, $[o]$, $[p]$, $[q]$, $[r]$, $[s]$, $[t]$, $[u]$, $[v]$,
$[w]$, $[x]$, $[y]$, $[z]$, $[\langle * \equiv * \mid * := * \rangle]$, $[\langle * \equiv^0 * \mid * := * \rangle]$, $[\langle * \equiv^1 * \mid * := * \rangle]$, $[\langle * \equiv^* * \mid * := * \rangle]$,
[Ded$(*,*)$], [Ded$_0(*,*)$], [Ded$_1(*,*,*)$], [Ded$_2(*,*,*)$], [Ded$_3(*,*,*,*)$],
[Ded$_4(*,*,*,*)$], [Ded$^*_4(*,*,*,*)$], [Ded$_5(*,*,*)$], [Ded$_6(*,*,*,*)$],
[Ded$^*_6(*,*,*,*)$], [Ded$_7(*)$], [Ded$_8(*,*)$], [Ded$^*_8(*,*)$], [S], [Neg], [MP], [Gen],
[Ded], [S1], [S2], [S3], [S4], [S5], [S6], [S7], [S8], [S9], [Repetition], [A1$'$], [A2$'$], [A4$'$],
[A5$'$], [Prop 3.2a], [Prop 3.2b], [Prop 3.2c], [Prop 3.2d], [Prop 3.2e$_1$], [Prop 3.2e$_2$],
[Prop 3.2e], [Prop 3.2f$_1$], [Prop 3.2f$_2$], [Prop 3.2f], [Prop 3.2g$_1$], [Prop 3.2g$_2$],
[Prop 3.2g], [Prop 3.2h$_1$], [Prop 3.2h$_2$], [Prop 3.2h], [Block$_1(*,*,*)$], [Block$_2(*)$],
[kvanti], [UniqueMember], [UniqueMember(Type)], [SameSeries], [A4],
[SameMember], [Qclosed(Addition)], [Qclosed(Multiplication)],
[FromCartProd(1)], [1rule fromCartProd(2)], [constantRationalSeries$(*)$],

[cartProd(∗)], [Power(∗)], [binaryUnion(∗, ∗)], [SetOfRationalSeries], [IsSubset(∗, ∗)], [(p∗, ∗)], [(s∗)], [(· · · )], [Objekt-var], [Ex-var], [Ph-var], [Værdi], [Variabel], [Op(∗)], [Op(∗, ∗)], [∗ =̈= ∗], [ContainsEmpty(∗)], [Nat(∗)], [Dedu(∗, ∗)], [Dedu$_0$(∗, ∗)], [Dedu$_s$(∗, ∗, ∗)], [Dedu$_1$(∗, ∗, ∗)], [Dedu$_2$(∗, ∗, ∗)], [Dedu$_3$(∗, ∗, ∗, ∗)], [Dedu$_4$(∗, ∗, ∗, ∗)], [Dedu$^*_4$(∗, ∗, ∗, ∗)], [Dedu$_5$(∗, ∗, ∗)], [Dedu$_6$(∗, ∗, ∗, ∗)], [Dedu$^*_6$(∗, ∗, ∗, ∗)], [Dedu$_7$(∗)], [Dedu$_8$(∗, ∗)], [Dedu$^*_8$(∗, ∗)], [Ex$_1$], [Ex$_2$], [Ex3], [Ex$_{10}$], [Ex$_{20}$], [$*_{\mathrm{Ex}}$], [$*^{\mathrm{Ex}}$], [$\langle *\equiv * \mid * := = * \rangle_{\mathrm{Ex}}$], [$\langle *\equiv^0 * \mid * := = * \rangle_{\mathrm{Ex}}$], [$\langle *\equiv^1 * \mid * := = * \rangle_{\mathrm{Ex}}$], [$\langle *\equiv^* * \mid * := = * \rangle_{\mathrm{Ex}}$], [ph$_1$], [ph$_2$], [ph$_3$], [$*_{\mathrm{Ph}}$], [$*^{\mathrm{Ph}}$], [$\langle *\equiv * \mid * := = * \rangle_{\mathrm{Ph}}$], [$\langle *\equiv^0 * \mid * := = * \rangle_{\mathrm{Ph}}$], [$\langle *\equiv^1 * \mid * := = * \rangle_{\mathrm{Ph}}$], [$\langle *\equiv^* * \mid * := = * \rangle_{\mathrm{Ph}}$], [$\langle *\equiv * \mid * := = * \rangle_{\mathrm{Me}}$], [$\langle *\equiv^1 * \mid * := = * \rangle_{\mathrm{Me}}$], [$\langle *\equiv^* * \mid * := = * \rangle_{\mathrm{Me}}$], [bs], [OBS], [$\mathcal{BS}$], [Ø], [SystemQ], [MP], [Gen], [Repetition], [Neg], [Ded], [ExistIntro], [Extensionality], [Ødef], [PairDef], [UnionDef], [PowerDef], [SeparationDef], [AddDoubleNeg], [RemoveDoubleNeg], [AndCommutativity], [AutoImply], [Contrapositive], [FirstConjunct], [SecondConjunct], [FromContradiction], [FromDisjuncts], [IffCommutativity], [IffFirst], [IffSecond], [ImplyTransitivity], [JoinConjuncts], [MP2], [MP3], [MP4], [MP5], [MT], [NegativeMT], [Technicality], [Weakening], [WeakenOr1], [WeakenOr2], [Formula2Pair], [Pair2Formula], [Formula2Union], [Union2Formula], [Formula2Sep], [Sep2Formula], [Formula2Power], [SubsetInPower], [HelperPowerIsSub], [PowerIsSub], [(Switch)HelperPowerIsSub], [(Switch)PowerIsSub], [ToSetEquality], [HelperToSetEquality(t)], [ToSetEquality(t)], [HelperFromSetEquality], [FromSetEquality], [HelperReflexivity], [Reflexivity], [HelperSymmetry], [Symmetry], [HelperTransitivity], [Transitivity], [ERisReflexive], [ERisSymmetric], [ERisTransitive], [ØisSubset], [HelperMemberNotØ], [MemberNotØ], [HelperUniqueØ], [UniqueØ], [== Reflexivity], [== Symmetry], [Helper == Transitivity], [== Transitivity], [HelperTransferNotEq], [TransferNotEq], [HelperPairSubset], [Helper(2)PairSubset], [PairSubset], [SamePair], [SameSingleton], [UnionSubset], [SameUnion], [SeparationSubset], [SameSeparation], [SameBinaryUnion], [IntersectionSubset], [SameIntersection], [AutoMember], [HelperEqSysNotØ], [EqSysNotØ], [HelperEqSubset], [EqSubset], [HelperEqNecessary], [EqNecessary], [HelperNoneEqNecessary], [Helper(2)NoneEqNecessary], [NoneEqNecessary], [EqClassIsSubset], [EqClassesAreDisjoint], [AllDisjoint], [AllDisjointImply], [BSsubset], [Union(BS/R)subset], [UnionIdentity], [EqSysIsPartition], [(x1)], [(x2)], [(y1)], [(y2)], [(v1)], [(v2)], [(v3)], [(v4)], [(v2n)], [(m1)], [(m2)], [(n1)], [(n2)], [(n3)], [($\epsilon$)], [($\epsilon$)$_1$], [($\epsilon$2)], [(fep)], [(fx)], [(fy)], [(fz)], [(fu)], [(fv)], [(fw)], [(rx)], [(ry)], [(rz)], [(ru)], [(sx)], [(sx1)], [(sy)], [(sy1)], [(sz)], [(sz1)], [(su)], [(su1)], [(fxs)], [(fys)], [(crs1)], [(f1)], [(f2)], [(f3)], [(f4)], [(op1)], [(op2)], [(r1)], [(s1)], [(s2)], [X$_1$], [X$_2$], [Y$_1$], [Y$_2$], [V$_1$], [V$_2$], [V$_3$], [V$_4$], [V$_{2n}$], [M$_1$], [M$_2$], [N$_1$], [N$_2$], [N$_3$], [$\epsilon$], [$\epsilon$1], [$\epsilon$2], FX], [FY], [FZ], [FU], [FV], [FW], [FEP], [RX], [RY], [RZ], [RU], [(SX)], [(SX1)], [(SY)], [(SY1)], [(SZ)], [(SZ1)], [(SU)], [(SU1)], [FXS], [FYS], [(F1)], [(F2)], [(F3)], [(F4)], [(OP1)], [(OP2)], [(R1)], [(S1)], [(S2)], [(EPob)], [(CRS1ob)], [(F1ob)], [(F2ob)], [(F3ob)], [(F4ob)], [(N1ob)], [(N2ob)], [(OP1ob)], [(OP2ob)], [(R1ob)], [(S1ob)], [(S2ob)], [ph$_4$], [ph$_5$], [ph$_6$], [NAT], [RATIONAL$_S$ERIES], [SERIES], [SetOfReals], [SetOfFxs], [N], [Q], [X], [xs], [xaF], [ysF], [us], [usFoelge], [0], [1],

[(−1)], [2], [3], [1/2], [1/3], [2/3], [0f], [1f], [00], [01], [(− − 01)], [02], [01//02], [lemma plus0Left], [lemma times1Left], [lemma eqAdditionLeft], [lemma eqMultiplicationLeft], [PlusAssociativity(R)], [PlusAssociativity(R)XX], [Plus0(R)], [Negative(R)], [Times1(R)], [lessAddition(R)], [PlusCommutativity(R)], [LeqAntisymmetry(R)], [LeqTransitivity(R)], [leqAddition(R)], [Distribution(R)], [A4(Axiom)], [InductionAxiom], [EqualityAxiom], [EqLeqAxiom], [EqAdditionAxiom], [EqMultiplicationAxiom], [QisClosed(Reciprocal)(Imply)], [QisClosed(Reciprocal)], [QisClosed(Negative)(Imply)], [QisClosed(Negative)], [leqReflexivity], [leqAntisymmetryAxiom], [leqTransitivityAxiom], [leqTotality], [leqAdditionAxiom], [leqMultiplicationAxiom], [plusAssociativity], [plusCommutativity], [Negative], [plus0], [timesAssociativity], [timesCommutativity], [ReciprocalAxiom], [times1], [Distribution], [0not1], [lemma eqLeq(R)], [TimesAssociativity(R)], [TimesCommutativity(R)], [lemma =f to sameF], [lemma plusF(Sym)], [lemma timesF(Sym)], [Separation2formula(1)], [Separation2formula(2)], [IfThenElse(T)], [IfThenElse(F)], [Cauchy], [PlusF], [ReciprocalF], [From ==], [To ==], [From <<], [to <<], [FromInR], [PlusR], [PlusR(Sym)], [TimesR], [TimesR(Sym)], [ReciprocalR(Axiom)], [LessMinus1(N)], [Nonnegative(N)], [US0], [NextXS(UpperBound)], [NextXS(NoUpperBound)], [NextUS(UpperBound)], [NextUS(NoUpperBound)], [ExpZero], [ExpPositive], [ExpZero(R)], [ExpPositive(R)], [BSzero], [BSpositive], [UStelescope(Zero)], [UStelescope(Positive)], [EqAddition(R)], [Unminus(R)], [FromLimit], [ToUpperBound], [FromUpperBound], [USisUpperBound], [0not1(R)], [ExpUnbounded(R)], [FromLeq(Advanced)(N)], [FromLeastUpperBound], [ToLeastUpperBound], [XSisNotUpperBound], [ysFGreater], [ysFLess], [SmallInverse], [NatType], [RationalType], [SeriesType], [Max], [Numerical], [MemberOfSeries(Imply)], [JoinConjuncts(2conditions)], [prop lemma imply negation], [TND], [FromNegatedImply], [ToNegatedImply], [FromNegated(2 ∗ Imply)], [FromNegatedAnd], [FromNegatedOr], [ToNegatedOr], [FromNegations], [From3Disjuncts], [From2 ∗ 2Disjuncts], [NegateDisjunct1], [NegateDisjunct2], [ExpandDisjuncts], [SENC1], [SENC2], [LessLeq(R)], [MemberOfSeries], [memberOfSeries(Type)], [<< testMacro(∗)], [Tester1], [Tester2], [Tester3], [Tester4], [Tester5], [Tester6];

**Preassociative**

[∗_{∗}], [∗/indexintro(∗, ∗, ∗, ∗)], [∗/intro(∗, ∗, ∗)], [∗/bothintro(∗, ∗, ∗, ∗, ∗)], [∗/nameintro(∗, ∗, ∗, ∗)], [$*'$], [∗[ ∗ ]], [∗[∗→∗]], [∗[∗⇒∗]], [∗0], [∗1], [0b], [∗-color(∗)], [∗-color$^{*}$(∗)], [$*^{\mathrm{H}}$], [$*^{\mathrm{T}}$], [$*^{\mathrm{U}}$], [$*^{\mathrm{h}}$], [$*^{\mathrm{t}}$], [$*^{\mathrm{s}}$], [$*^{\mathrm{c}}$], [$*^{\mathrm{d}}$], [$*^{\mathrm{a}}$], [$*^{\mathrm{C}}$], [$*^{\mathrm{M}}$], [$*^{\mathrm{B}}$], [$*^{\mathrm{r}}$], [$*^{\mathrm{i}}$], [$*^{\mathrm{d}}$], [$*^{\mathrm{R}}$], [$*^{0}$], [$*^{1}$], [$*^{2}$], [$*^{3}$], [$*^{4}$], [$*^{5}$], [$*^{6}$], [$*^{7}$], [$*^{8}$], [$*^{9}$], [$*^{\mathrm{E}}$], [$*^{\mathcal{V}}$], [$*^{\mathcal{C}}$], [$*^{\mathcal{C}^{*}}$], [$*^{\mathrm{hide}}$];

**Preassociative**

[“ ∗ ”], [], [(∗)$^{\mathbf{t}}$], [string(∗) + ∗], [string(∗) ++ ∗], [ ∗], [ ∗], [!∗], ["∗], [#∗], [$∗], [%∗], [&∗], ['∗], [(∗), )∗], [∗∗], [+∗], [, ∗], [-∗], [.∗], [/∗], [0∗], [1∗], [2∗], [3∗], [4∗], [5∗], [6∗], [7∗], [8∗], [9∗], [:∗], [; ∗], [<∗], [=∗], [>∗], [?∗], [@∗], [A∗], [B∗], [C∗], [D∗], [E∗], [F∗], [G∗], [H∗], [I∗], [J∗], [K∗], [L∗], [M∗], [N∗], [O∗], [P∗], [Q∗], [R∗], [S∗], [T∗], [U∗], [V∗], [W∗], [X∗], [Y∗], [Z∗], [[∗], [\∗], []∗], [ˆ∗],

[_∗], [‘∗], [a∗], [b∗], [c∗], [d∗], [e∗], [f∗], [g∗], [h∗], [i∗], [j∗], [k∗], [l∗], [m∗], [n∗], [o∗], [p∗], [q∗], [r∗], [s∗], [t∗], [u∗], [v∗], [w∗], [x∗], [y∗], [z∗], [{∗], [|∗], [}∗], [˜∗], [**Preassociative** ∗; ∗], [**Postassociative** ∗; ∗], [[∗], ∗], [priority ∗ end], [newline ∗], [macro newline ∗], [MacroIndent(∗)];

**Preassociative**

[∗ ’ ∗], [∗ ‘ ∗];

**Preassociative**

[∗(exp)∗];

**Preassociative**

[∗′], [R(∗)], [− − R(∗)], [rec∗];

**Preassociative**

[∗/∗], [∗ ∩ ∗], [∗[∗]];

**Preassociative**

[∪∗], [∗ ∪ ∗], [P(∗)];

**Preassociative**

[{∗}], [StateExpand(∗, ∗, ∗)], [extractSeries(∗)], [SetOfSeries(∗)], [− − Macro(∗)], [ExpandList(∗, ∗, ∗)], [∗ ∗ Macro(∗)], [+ + Macro(∗)], [<< Macro(∗)], [UB(∗, ∗)], [LUB(∗, ∗)], [BS(∗, ∗)], [UStelescope(∗, ∗)], [(∗)], [|r ∗ |], [Limit(∗, ∗)], [Union(∗)], [IsOrderedPair(∗, ∗, ∗)], [IsRelation(∗, ∗, ∗)], [isFunction(∗, ∗, ∗)], [IsSeries(∗, ∗)], [IsNatural(∗, ∗)], [OrderedPair(∗, ∗)], [TypeNat(∗)], [TypeNat0(∗)], [TypeRational(∗)], [TypeRational0(∗)], [TypeSeries(∗, ∗)], [Typeseries0(∗, ∗)];

**Preassociative**

[{∗, ∗}], [⟨∗, ∗⟩], [(−u∗)], [−$_{\mathrm{f}}$∗], [(− − ∗)], [1f/∗], [1fny/∗], [01//temp∗];

**Preassociative**

[∗ ∈ ∗];

**Preassociative**

[∗ · ∗], [∗ ·$_0$ ∗], [(∗ ∗ ∗)], [∗ ∗$_{\mathrm{f}}$ ∗], [∗ ∗ ∗∗];

**Preassociative**

[∗ + ∗], [∗ +$_0$ ∗], [∗ +$_1$ ∗], [∗ − ∗], [∗ −$_0$ ∗], [∗ −$_1$ ∗], [(∗ + ∗)], [(∗ − ∗)], [∗ +$_{\mathrm{f}}$ ∗], [∗ −$_{\mathrm{f}}$ ∗], [∗ + +∗], [R(∗) − −R(∗)];

**Preassociative**

[| ∗ |], [if(∗, ∗, ∗)], [Max(∗, ∗)], [Max(∗, ∗)];

**Preassociative**

[∗ = ∗], [∗ ≠ ∗], [∗ <= ∗], [∗ < ∗], [∗ <$_{\mathrm{f}}$ ∗], [∗ ≤$_{\mathrm{f}}$ ∗], [SF(∗, ∗)], [∗ == ∗], [∗!! == ∗], [∗ << ∗], [∗ <<== ∗], [∗ << test∗];

**Preassociative**

[∗ ∪ {∗}], [∗ ∪ ∗], [∗\{∗}];

**Postassociative**

[∗ ∴ ∗], [∗ $\underline{\therefore}$ ∗], [∗ $\underline{::}$ ∗], [∗ $\underline{+2*}$ ∗], [∗ :: ∗], [∗ +2∗ ∗];

**Postassociative**

[∗, ∗];

**Preassociative**

[∗ $\overset{\mathrm{B}}{\approx}$ ∗], [∗ $\overset{\mathrm{D}}{\approx}$ ∗], [∗ $\overset{\mathrm{C}}{\approx}$ ∗], [∗ $\overset{\mathrm{P}}{\approx}$ ∗], [∗ ≈ ∗], [∗ = ∗], [∗ $\overset{+}{\to}$ ∗], [∗ $\overset{\mathrm{t}}{=}$ ∗], [∗ $\overset{\mathrm{t}^*}{=}$ ∗], [∗ $\overset{\mathrm{r}}{=}$ ∗], [∗ ∈$_{\mathrm{t}}$ ∗], [∗ ⊆$_{\mathrm{T}}$ ∗], [∗ $\overset{\mathrm{T}}{=}$ ∗], [∗ $\overset{\mathrm{s}}{=}$ ∗], [∗ free in ∗], [∗ free in$^*$ ∗], [∗ free for ∗ in ∗], [∗ free for$^*$ ∗ in ∗], [∗ ∈$_{\mathrm{c}}$ ∗], [∗ < ∗], [∗ <′ ∗], [∗ ≤′ ∗], [∗ = ∗], [∗ ≠ ∗], [∗$^{\mathrm{var}}$],

$[*\#^0*]$, $[*\#^1*]$, $[*\#^**]$, $[*==*]$, $[*\subseteq*]$;
**Preassociative**
$[\neg*]$, $[\dot{\neg}(*)\mathrm{n}]$, $[*\notin*]$, $[*\neq*]$;
**Preassociative**
$[*\wedge*]$, $[*\ddot{\wedge}*]$, $[*\tilde{\wedge}*]$, $[*\wedge_{\mathrm{c}}*]$, $[*\dot{\wedge}*]$;
**Preassociative**
$[*\vee*]$, $[*\parallel*]$, $[*\ddot{\vee}*]$;
**Postassociative**
$[*\dot{\vee}*]$;
**Preassociative**
$[\exists*\colon*]$, $[\forall*\colon*]$, $[\forall_{\mathrm{obj}}*\colon*]$, $[\exists*\colon*]$;
**Postassociative**
$[*\dddot{\Rightarrow}*]$, $[*\Rightarrow*]$, $[*\Leftrightarrow*]$, $[*\dddot{\Leftrightarrow}*]$;
**Preassociative**
$[\{\mathrm{ph}\in*\mid*\}]$;
**Postassociative**
$[*:*]$, $[*\ \mathrm{spy}\ *]$, $[*!*]$;
**Preassociative**
$[*\begin{cases}*\\*\end{cases}]$;
**Preassociative**
$[\lambda*.*]$, $[\Lambda*.*]$, $[\Lambda*]$, [**if** $*$ **then** $*$ **else** $*$], [**let** $*=*$ **in** $*$], [**let** $*\ddot{=}*$ in $*$];
**Preassociative**
$[*\#*]$;
**Preassociative**
$[*^{\mathrm{I}}]$, $[*^{\triangleright}]$, $[*^{\mathrm{V}}]$, $[*^{+}]$, $[*^{-}]$, $[*^{*}]$;
**Preassociative**
$[*@*]$, $[*\triangleright*]$, $[*\blacktriangleright*]$, $[*\gg*]$, $[*\trianglerighteq*]$;
**Postassociative**
$[*\vdash*]$, $[*\Vdash*]$, [$*$ i.e. $*$];
**Preassociative**
$[\forall*\colon*]$, $[\Pi*\colon*]$;
**Postassociative**
$[*\oplus*]$;
**Postassociative**
$[*;*]$;
**Preassociative**
[$*$ proves $*$];
**Preassociative**
[$*$ **proof of** $*:*$], [Line $*:*\gg*;*$], [Last line $*\gg*\,\square$],
[Line $*:$ Premise $\gg*;*$], [Line $*:$ Side-condition $\gg*;*$], [Arbitrary $\gg*;*$],
[Local $\gg*=*;*$], [Begin $*;*:$ End; $*$], [Last block line $*\gg*;$],
[Arbitrary $\gg*;*$];
**Postassociative**
$[*\mid*]$;
**Postassociative**

[∗ , ∗], [∗[ ∗ ]∗];
**Preassociative**
[∗&∗];
**Preassociative**
[∗\\∗], [∗ linebreak[4] ∗], [∗\\∗]; **End table**

# A Pyk definitioner

([<< testMacro(∗) $\overset{\text{pyk}}{\rightarrow}$ “<<testMacro( " )”]
[Tester1 $\overset{\text{pyk}}{\rightarrow}$ “tester1”]
[Tester2 $\overset{\text{pyk}}{\rightarrow}$ “tester2”]
[Tester3 $\overset{\text{pyk}}{\rightarrow}$ “tester3”]
[Tester4 $\overset{\text{pyk}}{\rightarrow}$ “tester4”]
[Tester5 $\overset{\text{pyk}}{\rightarrow}$ “tester5”]
[Tester6 $\overset{\text{pyk}}{\rightarrow}$ “tester6”]
[∗ << test∗ $\overset{\text{pyk}}{\rightarrow}$ “" <<test "”]
[prove $\overset{\text{pyk}}{\rightarrow}$ “prove”]
)ᵖ

[prove $\stackrel{\text{tex}}{=}$ “prove”]

[Tester1 $\stackrel{\text{tex}}{=}$ “Tester1”]

[Tester2 $\stackrel{\text{tex}}{=}$ “Tester2”]

[Tester3 $\stackrel{\text{tex}}{=}$ “Tester3”]

[Tester4 $\stackrel{\text{tex}}{=}$ “Tester4”]

[Tester5 $\stackrel{\text{tex}}{=}$ “Tester5”]

[Tester6 $\stackrel{\text{tex}}{=}$ “Tester6”]