

Logiweb sequent calculus, Chores

Klaus Grue

26. juni 2006

Indhold

1	Test cases	1
2	Pyk definitions	1
3	T_EX definitions	5
3.1	Variables	13
4	Numerals	13
5	Priority table	14

1 Test cases

2 Pyk definitions

$([\bar{0} \xrightarrow{\text{pyk}} \text{“numeral zero”}])$

$([\bar{1} \xrightarrow{\text{pyk}} \text{“numeral one”}])$

$([\bar{2} \xrightarrow{\text{pyk}} \text{“numeral two”}])$

$([\bar{3} \xrightarrow{\text{pyk}} \text{“numeral three”}])$

$([\bar{4} \xrightarrow{\text{pyk}} \text{“numeral four”}])$

$([\bar{5} \xrightarrow{\text{pyk}} \text{“numeral five”}])$

$([\bar{6} \xrightarrow{\text{pyk}} \text{“numeral six”}])$

$([\bar{7} \xrightarrow{\text{pyk}} \text{“numeral seven”}])$

$([\bar{8} \xrightarrow{\text{pyk}} \text{“numeral eight”}])$

$([\bar{9} \xrightarrow{\text{pyk}} \text{“numeral nine”}])$

$([\text{rule div} \xrightarrow{\text{pyk}} \text{“rule div”}])$

$([\text{R} \xrightarrow{\text{pyk}} \text{“rule r”}])$

$([\text{R1} \xrightarrow{\text{pyk}} \text{“rule r one”}])$

- [R2 $\xrightarrow{\text{pyk}}$ “rule r two”]
- [R3 $\xrightarrow{\text{pyk}}$ “rule r three”]
- [R4 $\xrightarrow{\text{pyk}}$ “rule r four”]
- [R5 $\xrightarrow{\text{pyk}}$ “rule r five”]
- [R6 $\xrightarrow{\text{pyk}}$ “rule r six”]
- [Con1 $\xrightarrow{\text{pyk}}$ “conjel1”]
- [Con2 $\xrightarrow{\text{pyk}}$ “conjel2”]
- [Con $\xrightarrow{\text{pyk}}$ “conjin”]
- [Dis1 $\xrightarrow{\text{pyk}}$ “disjin1”]
- [Dis2 $\xrightarrow{\text{pyk}}$ “disjin2”]
- [T1 $\xrightarrow{\text{pyk}}$ “t one”]
- [T0 $\xrightarrow{\text{pyk}}$ “t zero”]
- [H0a $\xrightarrow{\text{pyk}}$ “h zero a”]
- [H0b $\xrightarrow{\text{pyk}}$ “h zero b”]
- [H1 $\xrightarrow{\text{pyk}}$ “h one”]
- [H2 $\xrightarrow{\text{pyk}}$ “h two”]
- [S10 $\xrightarrow{\text{pyk}}$ “axiom s ten”]
- [Prop 3.2 $\xrightarrow{\text{pyk}}$ “prop three two”]
- [Prop 3.2i $\xrightarrow{\text{pyk}}$ “prop three two i”]
- [Prop 3.2j₁ $\xrightarrow{\text{pyk}}$ “prop three two j one”]
- [Prop 3.2j₂ $\xrightarrow{\text{pyk}}$ “prop three two j two”]
- [Prop 3.2j $\xrightarrow{\text{pyk}}$ “prop three two j”]
- [Prop 3.2k₁ $\xrightarrow{\text{pyk}}$ “prop three two k one”]
- [Prop 3.2k₂ $\xrightarrow{\text{pyk}}$ “prop three two k two”]
- [Prop 3.2k $\xrightarrow{\text{pyk}}$ “prop three two k”]
- [Prop 3.2l₁ $\xrightarrow{\text{pyk}}$ “prop three two l one”]
- [Prop 3.2l₂ $\xrightarrow{\text{pyk}}$ “prop three two l two”]
- [Prop 3.2l $\xrightarrow{\text{pyk}}$ “prop three two l”]
- [Prop 3.2m₁ $\xrightarrow{\text{pyk}}$ “prop three two m one”]
- [Prop 3.2m₂ $\xrightarrow{\text{pyk}}$ “prop three two m two”]
- [Prop 3.2m $\xrightarrow{\text{pyk}}$ “prop three two m”]
- [Prop 3.2n₁ $\xrightarrow{\text{pyk}}$ “prop three two n one”]
- [Prop 3.2n₂ $\xrightarrow{\text{pyk}}$ “prop three two n two”]
- [Prop 3.2n $\xrightarrow{\text{pyk}}$ “prop three two n”]
- [Prop 3.2o $\xrightarrow{\text{pyk}}$ “prop three two o”]

- [Prop 3.4 $\xrightarrow{\text{pyk}}$ “prop three four”]
- [Prop 3.4a₁ $\xrightarrow{\text{pyk}}$ “prop three four a one”]
- [Prop 3.4a₂ $\xrightarrow{\text{pyk}}$ “prop three four a two”]
- [Prop 3.4a $\xrightarrow{\text{pyk}}$ “prop three four a”]
- [Prop 3.4b $\xrightarrow{\text{pyk}}$ “prop three four b”]
- [Prop 3.4c₁ $\xrightarrow{\text{pyk}}$ “prop three four c one”]
- [Prop 3.4c₂ $\xrightarrow{\text{pyk}}$ “prop three four c two”]
- [Prop 3.4c $\xrightarrow{\text{pyk}}$ “prop three four c”]
- [Prop 3.4d₁ $\xrightarrow{\text{pyk}}$ “prop three four d one”]
- [Prop 3.4d₂ $\xrightarrow{\text{pyk}}$ “prop three four d two”]
- [Prop 3.4d $\xrightarrow{\text{pyk}}$ “prop three four d”]
- [Prop 3.5 $\xrightarrow{\text{pyk}}$ “prop three five”]
- [Prop 3.5a $\xrightarrow{\text{pyk}}$ “prop three five a”]
- [Prop 3.5b $\xrightarrow{\text{pyk}}$ “prop three five b”]
- [Prop 3.5c $\xrightarrow{\text{pyk}}$ “prop three five c”]
- [Prop 3.5d₁ $\xrightarrow{\text{pyk}}$ “prop three five d one”]
- [Prop 3.5d₂ $\xrightarrow{\text{pyk}}$ “prop three five d two”]
- [Prop 3.5d $\xrightarrow{\text{pyk}}$ “prop three five d”]
- [Prop 3.5e₁ $\xrightarrow{\text{pyk}}$ “prop three five e one”]
- [Prop 3.5e₂ $\xrightarrow{\text{pyk}}$ “prop three five e two”]
- [Prop 3.5e $\xrightarrow{\text{pyk}}$ “prop three five e”]
- [Prop 3.5f₁ $\xrightarrow{\text{pyk}}$ “prop three five f one”]
- [Prop 3.5f₂ $\xrightarrow{\text{pyk}}$ “prop three five f two”]
- [Prop 3.5f $\xrightarrow{\text{pyk}}$ “prop three five f”]
- [Prop 3.5g₁ $\xrightarrow{\text{pyk}}$ “prop three five g one”]
- [Prop 3.5g₂ $\xrightarrow{\text{pyk}}$ “prop three five g two”]
- [Prop 3.5g $\xrightarrow{\text{pyk}}$ “prop three five g”]
- [Prop 3.5h₁ $\xrightarrow{\text{pyk}}$ “prop three five h one”]
- [Prop 3.5h₂ $\xrightarrow{\text{pyk}}$ “prop three five h two”]
- [Prop 3.5h $\xrightarrow{\text{pyk}}$ “prop three five h”]
- [Prop 3.5i₁ $\xrightarrow{\text{pyk}}$ “prop three five i one”]
- [Prop 3.5i₂ $\xrightarrow{\text{pyk}}$ “prop three five i two”]
- [Prop 3.5i $\xrightarrow{\text{pyk}}$ “prop three five i”]
- [Prop 3.5j₁ $\xrightarrow{\text{pyk}}$ “prop three five j one”]
- [Prop 3.5j₂ $\xrightarrow{\text{pyk}}$ “prop three five j two”]

- [Prop 3.5j $\xrightarrow{\text{pyk}}$ “prop three five j”]
- [Prop 3.7 $\xrightarrow{\text{pyk}}$ “prop three seven”]
- [Prop 3.7a $\xrightarrow{\text{pyk}}$ “prop three seven a”]
- [Prop 3.7b $\xrightarrow{\text{pyk}}$ “prop three seven b”]
- [Prop 3.7c $\xrightarrow{\text{pyk}}$ “prop three seven c”]
- [Prop 3.7d $\xrightarrow{\text{pyk}}$ “prop three seven d”]
- [Prop 3.7e $\xrightarrow{\text{pyk}}$ “prop three seven e”]
- [Prop 3.7f $\xrightarrow{\text{pyk}}$ “prop three seven f”]
- [Prop 3.7g $\xrightarrow{\text{pyk}}$ “prop three seven g”]
- [Prop 3.7g' $\xrightarrow{\text{pyk}}$ “prop three seven g mark”]
- [Prop 3.7h $\xrightarrow{\text{pyk}}$ “prop three seven h”]
- [Prop 3.7i $\xrightarrow{\text{pyk}}$ “prop three seven i”]
- [Prop 3.7j $\xrightarrow{\text{pyk}}$ “prop three seven j”]
- [Prop 3.7k $\xrightarrow{\text{pyk}}$ “prop three seven k”]
- [Prop 3.7k' $\xrightarrow{\text{pyk}}$ “prop three seven k mark”]
- [Prop 3.7l $\xrightarrow{\text{pyk}}$ “prop three seven l”]
- [Prop 3.7l' $\xrightarrow{\text{pyk}}$ “prop three seven l mark”]
- [Prop 3.7m $\xrightarrow{\text{pyk}}$ “prop three seven m”]
- [Prop 3.7n $\xrightarrow{\text{pyk}}$ “prop three seven n”]
- [Prop 3.7o $\xrightarrow{\text{pyk}}$ “prop three seven o”]
- [Prop 3.7p $\xrightarrow{\text{pyk}}$ “prop three seven p”]
- [Prop 3.7q $\xrightarrow{\text{pyk}}$ “prop three seven q”]
- [Prop 3.7r $\xrightarrow{\text{pyk}}$ “prop three seven r”]
- [Prop 3.7s $\xrightarrow{\text{pyk}}$ “prop three seven s”]
- [Prop 3.7t $\xrightarrow{\text{pyk}}$ “prop three seven t”]
- [Prop 3.7u $\xrightarrow{\text{pyk}}$ “prop three seven u”]
- [Prop 3.7u' $\xrightarrow{\text{pyk}}$ “prop three seven u mark”]
- [Prop 3.7v $\xrightarrow{\text{pyk}}$ “prop three seven v”]
- [Prop 3.7w $\xrightarrow{\text{pyk}}$ “prop three seven w”]
- [Prop 3.7x $\xrightarrow{\text{pyk}}$ “prop three seven x”]
- [Prop 3.7x' $\xrightarrow{\text{pyk}}$ “prop three seven x mark”]
- [Prop 3.7y $\xrightarrow{\text{pyk}}$ “prop three seven y”]
- [Prop 3.7y' $\xrightarrow{\text{pyk}}$ “prop three seven y mark”]
- [Prop 3.7z $\xrightarrow{\text{pyk}}$ “prop three seven z”]
- [Prop 3.7z' $\xrightarrow{\text{pyk}}$ “prop three seven z mark”]

[Prop 3.10 $\xrightarrow{\text{pyk}}$ “prop three ten”]
 [Prop 3.10a $\xrightarrow{\text{pyk}}$ “prop three ten a”]
 [Prop 3.10b $\xrightarrow{\text{pyk}}$ “prop three ten b”]
 [Prop 3.10c $\xrightarrow{\text{pyk}}$ “prop three ten c”]
 [Prop 3.10d $\xrightarrow{\text{pyk}}$ “prop three ten d”]
 [Prop 3.10e $\xrightarrow{\text{pyk}}$ “prop three ten e”]
 [Prop 3.10f $\xrightarrow{\text{pyk}}$ “prop three ten f”]
 [Prop 3.10g $\xrightarrow{\text{pyk}}$ “prop three ten g”]
 [Prop 3.10h $\xrightarrow{\text{pyk}}$ “prop three ten h”]
 [Prop 3.11 $\xrightarrow{\text{pyk}}$ “prop three eleven”]
 [$* < *$ $\xrightarrow{\text{pyk}}$ “ u ist ”]
 [$* \leq *$ $\xrightarrow{\text{pyk}}$ “ u istq ”]
 [$* \not< *$ $\xrightarrow{\text{pyk}}$ “ u inst ”]
 [$* > *$ $\xrightarrow{\text{pyk}}$ “ u igt ”]
 [$* \geq *$ $\xrightarrow{\text{pyk}}$ “ u igtq ”]
 [$* \not> *$ $\xrightarrow{\text{pyk}}$ “ u ingt ”]
 [$* \neq *$ $\xrightarrow{\text{pyk}}$ “ u neq ”]
 [$* \wedge *$ $\xrightarrow{\text{pyk}}$ “ u and1 ”]
 [$* \vee *$ $\xrightarrow{\text{pyk}}$ “ u or1 ”]
 [$\exists *: *$ $\xrightarrow{\text{pyk}}$ “exists ” indeed ”]
 [$* \mid *$ $\xrightarrow{\text{pyk}}$ “ u divides ”]
 [$* \dots$ $\xrightarrow{\text{pyk}}$ “ u ldots”]
 [frozen $\xrightarrow{\text{pyk}}$ “frozen”]
)^P

3 T_EX definitions

[$\exists x: y \stackrel{\text{tex}}{=} \text{“}$
 \backslash exists #1.
 \backslash colon #2.”]
 [S10 $\stackrel{\text{tex}}{=} \text{“}$
 S10”]
 [$x \mid y \stackrel{\text{tex}}{=} \text{“}$ #1.
 \backslash mathrel{ $\{ \}$ } #2.”]
 [Prop 3.2 $\stackrel{\text{tex}}{=} \text{“}$
 Prop\ 3.2”]

[Prop 3.2i $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2i”]

[Prop 3.2j $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2j”]

[Prop 3.2j₁ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2j_1”]

[Prop 3.2j₂ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2j_2”]

[Prop 3.2k $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2k”]

[Prop 3.2k₁ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2k_1”]

[Prop 3.2k₂ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2k_2”]

[Prop 3.2l $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2l”]

[Prop 3.2l₁ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2l_1”]

[Prop 3.2l₂ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2l_2”]

[Prop 3.2m $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2m”]

[Prop 3.2m₁ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2m_1”]

[Prop 3.2m₂ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2m_2”]

[Prop 3.2n $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2n”]

[Prop 3.2n₁ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2n_1”]

[Prop 3.2n₂ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2n_2”]

[Prop 3.2o $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.2o”]

[Prop 3.4 $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.4”]

[Prop 3.4a₁ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.4a_1”]

[Prop 3.4a₂ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.4a_2”]

[Prop 3.4a $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.4a”]

[Prop 3.4b $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.4b”]

[Prop 3.4c₁ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.4c_1”]

[Prop 3.4c₂ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.4c_2”]

[Prop 3.4c $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.4c”]

[Prop 3.4d₁ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.4d_1”]

[Prop 3.4d₂ $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.4d_2”]

[Prop 3.4d $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.4d”]

[Prop 3.5 $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.5”]

[Prop 3.5a $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.5a”]

[Prop 3.5b $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.5b”]

[Prop 3.5c $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.5c”]

[Prop 3.5d₁ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5d_1”]

[Prop 3.5d₂ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5d_2”]

[Prop 3.5d $\stackrel{\text{tex}}{=} “$
Prop\ 3.5d”]

[Prop 3.5e₁ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5e_1”]

[Prop 3.5e₂ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5e_2”]

[Prop 3.5e $\stackrel{\text{tex}}{=} “$
Prop\ 3.5e”]

[Prop 3.5f₁ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5f_1”]

[Prop 3.5f₂ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5f_2”]

[Prop 3.5f $\stackrel{\text{tex}}{=} “$
Prop\ 3.5f”]

[Prop 3.5g₁ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5g_1”]

[Prop 3.5g₂ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5g_2”]

[Prop 3.5g $\stackrel{\text{tex}}{=} “$
Prop\ 3.5g”]

[Prop 3.5h₁ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5h_1”]

[Prop 3.5h₂ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5h_2”]

[Prop 3.5h $\stackrel{\text{tex}}{=} “$
Prop\ 3.5h”]

[Prop 3.5i₁ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5i_1”]

[Prop 3.5i₂ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5i_2”]

[Prop 3.5i $\stackrel{\text{tex}}{=} “$
Prop\ 3.5i”]

[Prop 3.5j₁ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5j_1”]

[Prop 3.5j₂ $\stackrel{\text{tex}}{=} “$
Prop\ 3.5j_2”]

[Prop 3.5j $\stackrel{\text{tex}}{=} “$
Prop\ 3.5j”]

[Prop 3.7 $\stackrel{\text{tex}}{=} “$
Prop\ 3.7”]

[Prop 3.7a $\stackrel{\text{tex}}{=} “$
Prop\ 3.7a”]

[Prop 3.7b $\stackrel{\text{tex}}{=} “$
Prop\ 3.7b”]

[Prop 3.7c $\stackrel{\text{tex}}{=} “$
Prop\ 3.7c”]

[Prop 3.7d $\stackrel{\text{tex}}{=} “$
Prop\ 3.7d”]

[Prop 3.7e $\stackrel{\text{tex}}{=} “$
Prop\ 3.7e”]

[Prop 3.7f $\stackrel{\text{tex}}{=} “$
Prop\ 3.7f”]

[Prop 3.7g $\stackrel{\text{tex}}{=} “$
Prop\ 3.7g”]

[Prop 3.7g' $\stackrel{\text{tex}}{=} “$
Prop\ 3.7g'”]

[Prop 3.7h $\stackrel{\text{tex}}{=} “$
Prop\ 3.7h”]

[Prop 3.7i $\stackrel{\text{tex}}{=} “$
Prop\ 3.7i”]

[Prop 3.7j $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7j”]

[Prop 3.7k $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7k”]

[Prop 3.7k' $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7k”’]

[Prop 3.7l $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7l”]

[Prop 3.7l' $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7l”’]

[Prop 3.7m $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7m”]

[Prop 3.7n $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7n”]

[Prop 3.7o $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7o”]

[Prop 3.7p $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7p”]

[Prop 3.7q $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7q”]

[Prop 3.7r $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7r”]

[Prop 3.7s $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7s”]

[Prop 3.7t $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7t”]

[Prop 3.7u $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7u”]

[Prop 3.7u' $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7u”’]

[Prop 3.7v $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7v”]

[Prop 3.7w $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7w”]

[Prop 3.7x $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7x”]

[Prop 3.7x' $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7x'”]

[Prop 3.7y $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7y”]

[Prop 3.7y' $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7y'”]

[Prop 3.7z $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7z”]

[Prop 3.7z' $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.7z'”]

[Prop 3.10 $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.10”]

[Prop 3.10a $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.10a”]

[Prop 3.10b $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.10b”]

[Prop 3.10c $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.10c”]

[Prop 3.10d $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.10d”]

[Prop 3.10e $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.10e”]

[Prop 3.10f $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.10f”]

[Prop 3.10g $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.10g”]

[Prop 3.10h $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.10h”]

[Prop 3.11 $\stackrel{\text{tex}}{=} \text{“}$
Prop\ 3.11”]

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

[R1 $\stackrel{\text{tex}}{=} \text{“}$
R1”]

[R2 $\stackrel{\text{tex}}{=} \text{“}$
R2”]

[R3 $\stackrel{\text{tex}}{=} \text{“}$
R3”]

[R4 $\stackrel{\text{tex}}{=} \text{“}$
R4”]

[R5 $\stackrel{\text{tex}}{=} \text{“}$
R5”]

[R6 $\stackrel{\text{tex}}{=} \text{“}$
R6”]

[Con1 $\stackrel{\text{tex}}{=} \text{“}$
Con1”]

[Con2 $\stackrel{\text{tex}}{=} \text{“}$
Con2”]

[Dis1 $\stackrel{\text{tex}}{=} \text{“}$
Dis1”]

[Dis2 $\stackrel{\text{tex}}{=} \text{“}$
Dis2”]

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

[T0 $\stackrel{\text{tex}}{=} \text{“}$
T0”]

[T1 $\stackrel{\text{tex}}{=} \text{“}$
T1”]

[H1 $\stackrel{\text{tex}}{=} \text{“}$
H1”]

[H2 $\stackrel{\text{tex}}{=}$ “
H2”]

[H0a $\stackrel{\text{tex}}{=}$ “
H0a”]

[H0b $\stackrel{\text{tex}}{=}$ “
H0b”]

[x < y $\stackrel{\text{tex}}{=}$ “#1.
< #2.”]

[x ≤ y $\stackrel{\text{tex}}{=}$ “#1.
\leq #2.”]

[x \not y $\stackrel{\text{tex}}{=}$ “#1.
\nless #2.”]

[x > y $\stackrel{\text{tex}}{=}$ “#1.
> #2.”]

[x ≥ y $\stackrel{\text{tex}}{=}$ “#1.
\geq #2.”]

[x >math>\ngtr</math> y $\stackrel{\text{tex}}{=}$ “#1.
\ngtr #2.”]

[x ≠ y $\stackrel{\text{tex}}{=}$ “#1.
\neq #2.”]

[x... $\stackrel{\text{tex}}{=}$ “#1.
\ldots”]

[x ∧ y $\stackrel{\text{tex}}{=}$ “#1.
\wedge #2.”]

[x ∨ y $\stackrel{\text{tex}}{=}$ “#1.
\vee #2.”]

[x ∧ y $\stackrel{\text{tex}}{=}$ ¬(x ⇒ y)] [x ∨ y $\stackrel{\text{tex}}{=}$ (¬x) ⇒ y]

3.1 Variables

4 Numerals

[x ≠ y $\stackrel{\text{tex}}{=}$ ¬(x = y)]
[0 $\stackrel{\text{tex}}{=}$ 0] [1 $\stackrel{\text{tex}}{=}$ 0'] [2 $\stackrel{\text{tex}}{=}$ 0''] [3 $\stackrel{\text{tex}}{=}$ 0'''] [4 $\stackrel{\text{tex}}{=}$ 0''''] [5 $\stackrel{\text{tex}}{=}$ 0'''''] [6 $\stackrel{\text{tex}}{=}$ 0''''''] [7 $\stackrel{\text{tex}}{=}$ 0''''''']
[8 $\stackrel{\text{tex}}{=}$ 0''''''''] [9 $\stackrel{\text{tex}}{=}$ 0''''''''']

$\overline{0} \stackrel{\text{tex}}{=} \text{“}$
 $\overline{1} \stackrel{\text{tex}}{=} \text{“}$
 $\overline{2} \stackrel{\text{tex}}{=} \text{“}$
 $\overline{3} \stackrel{\text{tex}}{=} \text{“}$
 $\overline{4} \stackrel{\text{tex}}{=} \text{“}$
 $\overline{5} \stackrel{\text{tex}}{=} \text{“}$
 $\overline{6} \stackrel{\text{tex}}{=} \text{“}$
 $\overline{7} \stackrel{\text{tex}}{=} \text{“}$
 $\overline{8} \stackrel{\text{tex}}{=} \text{“}$
 $\overline{9} \stackrel{\text{tex}}{=} \text{“}$
 $[\exists x: y \doteq \neg(\forall x: \neg y)]$

5 Priority table

Priority table

Preassociative

[frozen], [base], [bracket * end bracket], [big bracket * end bracket], [\$ * \$],
[flush left *], [x], [y], [z], [$[* \bowtie *]$], [$[* \xrightarrow{*} *]$], [pyk], [tex], [name], [prio], [*], [T],
 [if(*, *, *)], [$[* \xrightarrow{=} *]$], [val], [claim], [\perp], [f(*)], [$(*)^I$], [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], [$(*)^M$], [If(*, *, *)],
 [array{*} * end array], [l], [c], [r], [empty], [$\langle * | * := * \rangle$], [$\mathcal{M}(*)$], [$\tilde{\mathcal{U}}(*)$], [$\mathcal{U}(*)$],
 $\mathcal{U}^M(*)$, [**apply**(*, *)], [**apply**₁(*, *)], [identifier(*)], [identifier₁(*, *)], [array-
 plus(*, *)], [array-remove(*, *, *)], [array-put(*, *, *, *)], [array-add(*, *, *, *, *)],
 [bit(*, *)], [bit₁(*, *)], [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(*, *, *, *)], [$[*]$], [$\mathcal{M}(*, *, *)$], [$\mathcal{M}_2(*, *, *, *)$], [$\mathcal{M}^(*, *, *, *)$], [macro],
 [so], [**zip**(*, *)], [**assoc**₁(*, *, *)], [$(*)^P$], [self], [$[* \doteq *]$], [$[* \dot{=} *]$], [$[* \dot{=} *]$],
 $[* \stackrel{\text{pyk}}{=} *]$, [$[* \stackrel{\text{tex}}{=} *]$], [$[* \stackrel{\text{name}}{=} *]$], [**Priority table**[*]], [$\tilde{\mathcal{M}}_1$], [$\tilde{\mathcal{M}}_2(*)$], [$\tilde{\mathcal{M}}_3(*)$],
 $\tilde{\mathcal{M}}_4(*, *, *, *, *)$], [$\mathcal{M}(*, *, *, *)$], [$\tilde{\mathcal{Q}}(*, *, *, *)$], [$\tilde{\mathcal{Q}}_2(*, *, *, *)$], [$\tilde{\mathcal{Q}}_3(*, *, *, *, *)$], [$\tilde{\mathcal{Q}}^(*, *, *, *)$],
 $[(*)]$, [$(*)$], [display(*)], [statement(*)], [$[*]$], [$[*]^-$], [**aspect**(*, *)],
[aspect(*, *, *)], [$(*)$], [**tuple**₁(*)], [**tuple**₂(*)], [let₂(*, *)], [let₁(*, *)],
 $[* \stackrel{\text{claim}}{=} *]$, [checker], [**check**(*, *)], [**check**₂(*, *, *)], [**check**₃(*, *, *)],
[check^{*}(*, *)], [**check**₂^{*}(*, *, *)], [$[*]$], [$[*]^-$], [$[*]^\circ$], [msg], [$[* \stackrel{\text{msg}}{=} *]$], [$\langle \text{stmt} \rangle$],
 [stmt], [$[* \stackrel{\text{stmt}}{=} *]$], [HeadNil'], [HeadPair'], [Transitivity'], [\perp], [Contra'], [T_E'],
 [L₁], [$[*]$], [\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}], [$[* | * := *]$], [$\langle * | * := * \rangle$], [\emptyset], [Remainder],

$[(*)^\vee]$, $[\text{intro}(*, *, *, *)]$, $[\text{intro}_2(*, *, *)]$, $[\text{error}(*, *)]$, $[\text{error}_2(*, *)]$, $[\text{proof}(*, *, *)]$,
 $[\text{proof}_2(*, *)]$, $[\mathcal{S}(*, *)]$, $[\mathcal{S}^I(*, *)]$, $[\mathcal{S}^{\triangleright}(*, *)]$, $[\mathcal{S}_1^{\triangleright}(*, *, *)]$, $[\mathcal{S}^E(*, *)]$, $[\mathcal{S}_1^E(*, *, *)]$,
 $[\mathcal{S}^+(*, *)]$, $[\mathcal{S}_1^+(*, *, *)]$, $[\mathcal{S}^-(*, *)]$, $[\mathcal{S}_1^-(*, *, *)]$, $[\mathcal{S}^*(*, *)]$, $[\mathcal{S}_1^*(*, *, *)]$,
 $[\mathcal{S}_2^*(*, *, *, *)]$, $[\mathcal{S}^{\textcircled{a}}(*, *)]$, $[\mathcal{S}_1^{\textcircled{a}}(*, *, *)]$, $[\mathcal{S}^{\perp}(*, *)]$, $[\mathcal{S}_1^{\perp}(*, *, *, *)]$, $[\mathcal{S}^{\#}(*, *)]$,
 $[\mathcal{S}_1^{\#}(*, *, *, *)]$, $[\mathcal{S}^{\text{i.e.}}(*, *)]$, $[\mathcal{S}_1^{\text{i.e.}}(*, *, *, *)]$, $[\mathcal{S}_2^{\text{i.e.}}(*, *, *, *, *)]$, $[\mathcal{S}^{\vee}(*, *)]$,
 $[\mathcal{S}_1^{\vee}(*, *, *, *, *)]$, $[\mathcal{S}^{\text{i}}(*, *)]$, $[\mathcal{S}_1^{\text{i}}(*, *, *, *)]$, $[\mathcal{S}_2^{\text{i}}(*, *, *, *, *)]$, $[\mathcal{T}(*)]$, $[\text{claims}(*, *, *)]$,
 $[\text{claims}_2(*, *, *)]$, $[\text{<proof>}]$, $[\text{proof}]$, $[[\text{Lemma } *: *]]$, $[[\text{Proof of } *: *]]$,
 $[[* \text{ lemma } *: *]]$, $[[* \text{ antilemma } *: *]]$, $[[* \text{ rule } *: *]]$, $[[* \text{ antirule } *: *]]$,
 $[\text{verifier}]$, $[\mathcal{V}_1(*)]$, $[\mathcal{V}_2(*, *)]$, $[\mathcal{V}_3(*, *, *, *)]$, $[\mathcal{V}_4(*, *)]$, $[\mathcal{V}_5(*, *, *, *, *)]$, $[\mathcal{V}_6(*, *, *, *, *)]$,
 $[\mathcal{V}_7(*, *, *, *, *)]$, $[\text{Cut}(*, *)]$, $[\text{Head}_{\oplus}(*)]$, $[\text{Tail}_{\oplus}(*)]$, $[\text{rule}_1(*, *)]$, $[\text{rule}(*, *)]$,
 $[\text{Rule tactic}]$, $[\text{Plus}(*, *)]$, $[[\text{Theory } *]]$, $[\text{theory}_2(*, *)]$, $[\text{theory}_3(*, *)]$,
 $[\text{theory}_4(*, *, *, *)]$, $[\text{HeadNil}''']$, $[\text{HeadPair}''']$, $[\text{Transitivity}''']$, $[\text{Contra}''']$, $[\text{HeadNil}]$,
 $[\text{HeadPair}]$, $[\text{Transitivity}]$, $[\text{Contra}]$, $[\text{T}_E]$, $[\text{ragged right}]$,
 $[\text{ragged right expansion}]$, $[\text{parm}(*, *, *)]$, $[\text{parm}^*(*, *, *)]$, $[\text{inst}(*, *)]$,
 $[\text{inst}^*(*, *)]$, $[\text{occur}(*, *, *)]$, $[\text{occur}^*(*, *, *)]$, $[\text{unify}(* = *, *)]$, $[\text{unify}^*(* = *, *)]$,
 $[\text{unify}_2(* = *, *)]$, $[\text{L}_a]$, $[\text{L}_b]$, $[\text{L}_c]$, $[\text{L}_d]$, $[\text{L}_e]$, $[\text{L}_f]$, $[\text{L}_g]$, $[\text{L}_h]$, $[\text{L}_i]$, $[\text{L}_j]$, $[\text{L}_k]$, $[\text{L}_l]$, $[\text{L}_m]$,
 $[\text{L}_n]$, $[\text{L}_o]$, $[\text{L}_p]$, $[\text{L}_q]$, $[\text{L}_r]$, $[\text{L}_s]$, $[\text{L}_t]$, $[\text{L}_u]$, $[\text{L}_v]$, $[\text{L}_w]$, $[\text{L}_x]$, $[\text{L}_y]$, $[\text{L}_z]$, $[\text{L}_A]$, $[\text{L}_B]$, $[\text{L}_C]$,
 $[\text{L}_D]$, $[\text{L}_E]$, $[\text{L}_F]$, $[\text{L}_G]$, $[\text{L}_H]$, $[\text{L}_I]$, $[\text{L}_J]$, $[\text{L}_K]$, $[\text{L}_L]$, $[\text{L}_M]$, $[\text{L}_N]$, $[\text{L}_O]$, $[\text{L}_P]$, $[\text{L}_Q]$, $[\text{L}_R]$,
 $[\text{L}_S]$, $[\text{L}_T]$, $[\text{L}_U]$, $[\text{L}_V]$, $[\text{L}_W]$, $[\text{L}_X]$, $[\text{L}_Y]$, $[\text{L}_Z]$, $[\text{L}_?]$, $[\text{Reflexivity}]$, $[\text{Reflexivity}_1]$,
 $[\text{Commutativity}]$, $[\text{Commutativity}_1]$, $[\text{<tactic>}]$, $[\text{tactic}]$, $[[* \stackrel{\text{tactic}}{=} *]]$, $[\mathcal{P}(*, *, *)]$,
 $[\mathcal{P}^*(*, *, *)]$, $[\text{p}_0]$, $[\text{conclude}_1(*, *)]$, $[\text{conclude}_2(*, *, *)]$, $[\text{conclude}_3(*, *, *, *)]$,
 $[\text{conclude}_4(*, *)]$, $[\text{check}]$, $[[* \stackrel{\circ}{=} *]]$, $[\text{RootVisible}(*)]$, $[\text{A}]$, $[\text{R}]$, $[\text{C}]$, $[\text{T}]$, $[\text{L}]$, $[\{\ast\}]$, $[\bar{*}]$,
 $[a]$, $[b]$, $[c]$, $[d]$, $[e]$, $[f]$, $[g]$, $[h]$, $[i]$, $[j]$, $[k]$, $[l]$, $[m]$, $[n]$, $[o]$, $[p]$, $[q]$, $[r]$, $[s]$, $[t]$, $[u]$, $[v]$,
 $[w]$, $[x]$, $[y]$, $[z]$, $[(\ast \equiv \ast \mid \ast := \ast)]$, $[(\ast \equiv^0 \ast \mid \ast := \ast)]$, $[(\ast \equiv^1 \ast \mid \ast := \ast)]$, $[(\ast \equiv^* \ast \mid \ast := \ast)]$,
 $[\text{Ded}(*, *)]$, $[\text{Ded}_0(*, *)]$, $[\text{Ded}_1(*, *, *)]$, $[\text{Ded}_2(*, *, *)]$, $[\text{Ded}_3(*, *, *, *)]$,
 $[\text{Ded}_4(*, *, *, *)]$, $[\text{Ded}_4^*(*, *, *, *)]$, $[\text{Ded}_5(*, *, *)]$, $[\text{Ded}_6(*, *, *, *)]$,
 $[\text{Ded}_6^*(*, *, *, *)]$, $[\text{Ded}_7(*)]$, $[\text{Ded}_8(*, *)]$, $[\text{Ded}_8^*(*, *)]$, $[\text{S}]$, $[\text{Neg}]$, $[\text{MP}]$, $[\text{Gen}]$,
 $[\text{Ded}]$, $[\text{S1}]$, $[\text{S2}]$, $[\text{S3}]$, $[\text{S4}]$, $[\text{S5}]$, $[\text{S6}]$, $[\text{S7}]$, $[\text{S8}]$, $[\text{S9}]$, $[\text{Repetition}]$, $[\text{A1}']$, $[\text{A2}']$, $[\text{A4}']$,
 $[\text{A5}']$, $[\text{Prop 3.2a}]$, $[\text{Prop 3.2b}]$, $[\text{Prop 3.2c}]$, $[\text{Prop 3.2d}]$, $[\text{Prop 3.2e}_1]$,
 $[\text{Prop 3.2e}_2]$, $[\text{Prop 3.2e}]$, $[\text{Prop 3.2f}_1]$, $[\text{Prop 3.2f}_2]$, $[\text{Prop 3.2f}]$, $[\text{Prop 3.2g}_1]$,
 $[\text{Prop 3.2g}_2]$, $[\text{Prop 3.2g}]$, $[\text{Prop 3.2h}_1]$, $[\text{Prop 3.2h}_2]$, $[\text{Prop 3.2h}]$,
 $[\text{Block}_1(*, *, *)]$, $[\text{Block}_2(*)]$, $[\bar{0}]$, $[\bar{1}]$, $[\bar{2}]$, $[\bar{3}]$, $[\bar{4}]$, $[\bar{5}]$, $[\bar{6}]$, $[\bar{7}]$, $[\bar{8}]$, $[\bar{9}]$, $[\text{rule div}]$, $[\text{R}]$,
 $[\text{R1}]$, $[\text{R2}]$, $[\text{R3}]$, $[\text{R4}]$, $[\text{R5}]$, $[\text{R6}]$, $[\text{Con1}]$, $[\text{Con2}]$, $[\text{Con}]$, $[\text{Dis1}]$, $[\text{Dis2}]$, $[\text{T1}]$, $[\text{T0}]$,
 $[\text{H0a}]$, $[\text{H0b}]$, $[\text{H1}]$, $[\text{H2}]$, $[\text{S10}]$, $[\text{Prop 3.2}]$, $[\text{Prop 3.2i}]$, $[\text{Prop 3.2j}_1]$, $[\text{Prop 3.2j}_2]$,
 $[\text{Prop 3.2j}]$, $[\text{Prop 3.2k}_1]$, $[\text{Prop 3.2k}_2]$, $[\text{Prop 3.2k}]$, $[\text{Prop 3.2l}_1]$, $[\text{Prop 3.2l}_2]$,
 $[\text{Prop 3.2l}]$, $[\text{Prop 3.2m}_1]$, $[\text{Prop 3.2m}_2]$, $[\text{Prop 3.2m}]$, $[\text{Prop 3.2n}_1]$, $[\text{Prop 3.2n}_2]$,
 $[\text{Prop 3.2n}]$, $[\text{Prop 3.2o}]$, $[\text{Prop 3.4}]$, $[\text{Prop 3.4a}_1]$, $[\text{Prop 3.4a}_2]$, $[\text{Prop 3.4a}]$,
 $[\text{Prop 3.4b}]$, $[\text{Prop 3.4c}_1]$, $[\text{Prop 3.4c}_2]$, $[\text{Prop 3.4c}]$, $[\text{Prop 3.4d}_1]$, $[\text{Prop 3.4d}_2]$,
 $[\text{Prop 3.4d}]$, $[\text{Prop 3.5}]$, $[\text{Prop 3.5a}]$, $[\text{Prop 3.5b}]$, $[\text{Prop 3.5c}]$, $[\text{Prop 3.5d}_1]$,
 $[\text{Prop 3.5d}_2]$, $[\text{Prop 3.5d}]$, $[\text{Prop 3.5e}_1]$, $[\text{Prop 3.5e}_2]$, $[\text{Prop 3.5e}]$, $[\text{Prop 3.5f}_1]$,
 $[\text{Prop 3.5f}_2]$, $[\text{Prop 3.5f}]$, $[\text{Prop 3.5g}_1]$, $[\text{Prop 3.5g}_2]$, $[\text{Prop 3.5g}]$, $[\text{Prop 3.5h}_1]$,
 $[\text{Prop 3.5h}_2]$, $[\text{Prop 3.5h}]$, $[\text{Prop 3.5i}_1]$, $[\text{Prop 3.5i}_2]$, $[\text{Prop 3.5i}]$, $[\text{Prop 3.5j}_1]$,
 $[\text{Prop 3.5j}_2]$, $[\text{Prop 3.5j}]$, $[\text{Prop 3.7}]$, $[\text{Prop 3.7a}]$, $[\text{Prop 3.7b}]$, $[\text{Prop 3.7c}]$,
 $[\text{Prop 3.7d}]$, $[\text{Prop 3.7e}]$, $[\text{Prop 3.7f}]$, $[\text{Prop 3.7g}]$, $[\text{Prop 3.7g}']$, $[\text{Prop 3.7h}]$,
 $[\text{Prop 3.7i}]$, $[\text{Prop 3.7j}]$, $[\text{Prop 3.7k}]$, $[\text{Prop 3.7k}']$, $[\text{Prop 3.7l}]$, $[\text{Prop 3.7l}']$,

[Prop 3.7m], [Prop 3.7n], [Prop 3.7o], [Prop 3.7p], [Prop 3.7q], [Prop 3.7r],
 [Prop 3.7s], [Prop 3.7t], [Prop 3.7u], [Prop 3.7u'], [Prop 3.7v], [Prop 3.7w],
 [Prop 3.7x], [Prop 3.7x'], [Prop 3.7y], [Prop 3.7y'], [Prop 3.7z], [Prop 3.7z'],
 [Prop 3.10], [Prop 3.10a], [Prop 3.10b], [Prop 3.10c], [Prop 3.10d], [Prop 3.10e],
 [Prop 3.10f], [Prop 3.10g], [Prop 3.10h], [Prop 3.11];

Preassociative

[*_{*}], [* /indexintro(*, *, *, *)], [* /intro(*, *, *)], [* /bothintro(*, *, *, *, *)],
 [* /nameintro(*, *, *, *)], [* /], [* [*]], [* [* → *]], [* [* ⇒ *]], [* 0], [* 1], [0b], [* -color(*)],
 [* -color* (*)], [*^H], [*^T], [*^U], [*^h], [*^t], [*^s], [*^c], [*^d], [*^a], [*^C], [*^M], [*^B], [*^r], [*ⁱ],
 [*^d], [*^R], [*⁰], [*¹], [*²], [*³], [*⁴], [*⁵], [*⁶], [*⁷], [*⁸], [*⁹], [*^E], [*^v], [*^C], [*^{C*}],
 [*_{hide}];

Preassociative

[“ * ”], [], [(*)^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 *], [[*], [\ *], [] *], [^ *],
 [*], [*], [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

[* /];

Preassociative

[* · *], [* · 0 *];

Preassociative

[* + *], [* + 0 *], [* + 1 *], [* - *], [* - 0 *], [* - 1 *];

Preassociative

[* ∪ { * }], [* ∪ *], [* \ { * }];

Postassociative

[* ∴ *], [* ∴ *], [* ∴ ∴ *], [* + 2 * *], [* ∴ ∴ *], [* + 2 * *];

Postassociative

[* , *];

Preassociative

[* _B ≈ *], [* _D ≈ *], [* _C ≈ *], [* _P ≈ *], [* ≈ *], [* = *], [* ⇨ *], [* = *], [* =^t *], [* =^r *],
 [* ∈_t *], [* ⊆_T *], [* _T = *], [* _s = *], [* free in *], [* free in* *], [* free for * in *],
 [* free for* * in *], [* ∈_c *], [* < *], [* <' *], [* ≤' *], [* = *], [* ≠ *], [*^{var}],
 [* # 0 *], [* # 1 *], [* # *], [* < *], [* ≤ *], [* < *], [* > *], [* ≥ *], [* ≠ *], [* ≠ *];

Preassociative

[¬ *];

Preassociative

[* ∧ *], [* ∨ *], [* ∨ *], [* ∧ *], [* ∧ *];

Preassociative

[* ∨ *], [* || *], [* ∨̇ *], [* ∨ *];

Preassociative

[∃*: *], [∀*: *], [∀obj*: *], [∃*: *];

Postassociative

[* ⇨ *], [* ⇒ *], [* ⇔ *];

Postassociative

[* : *], [* spy *], [*!*];

Preassociative

[* { *
* }];

Preassociative

[λ * . *], [Λ * . *], [Λ *], [if * then * else *], [let * = * in *], [let * ≐ * in *];

Preassociative

[*#*];

Preassociative

[*^l], [*[▷]], [*^V], [*⁺], [*⁻], [*^{*}];

Preassociative

[* @ *], [* ▷ *], [* ▷̇ *], [* ≫ *], [* ▷̇ *];

Postassociative

[* ⊢ *], [* ⊣ *], [* i.e. *];

Preassociative

[∀*: *], [∏*: *];

Postassociative

[* ⊕ *];

Postassociative

[* ; *];

Preassociative

[* proves *];

Preassociative

[* **proof of** * : *], [Line * : * ≫ *; *], [Last line * ≫ * □],
[Line * : Premise ≫ *; *], [Line * : Side-condition ≫ *; *], [Arbitrary ≫ *; *],
[Local ≫ * = *; *], [Begin *; * : End; *], [Last block line * ≫ *; *],
[Arbitrary ≫ *; *];

Postassociative

[* | *];

Postassociative

[* , *], [* [*]*];

Preassociative

[*&*], [→];

Preassociative

[* \\ *], [* linebreak[4] *], [* \\ \\ *], [* | *], [* ...]; **End table**