

Logiweb sequent calculus, Chores

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Indhold

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1 Test cases

2 Pyk definitions

- $[\overline{0} \xrightarrow{\text{pyk}} \text{“numeral zero”}]$
- $[\overline{1} \xrightarrow{\text{pyk}} \text{“numeral one”}]$
- $[\overline{2} \xrightarrow{\text{pyk}} \text{“numeral two”}]$
- $[\overline{3} \xrightarrow{\text{pyk}} \text{“numeral three”}]$
- $[\overline{4} \xrightarrow{\text{pyk}} \text{“numeral four”}]$
- $[\overline{5} \xrightarrow{\text{pyk}} \text{“numeral five”}]$
- $[\overline{6} \xrightarrow{\text{pyk}} \text{“numeral six”}]$
- $[\overline{7} \xrightarrow{\text{pyk}} \text{“numeral seven”}]$
- $[\overline{8} \xrightarrow{\text{pyk}} \text{“numeral eight”}]$
- $[\overline{9} \xrightarrow{\text{pyk}} \text{“numeral nine”}]$
- $[\text{rule div} \xrightarrow{\text{pyk}} \text{“rule div”}]$
- $[\text{R} \xrightarrow{\text{pyk}} \text{“rule r”}]$
- $[\text{R1} \xrightarrow{\text{pyk}} \text{“rule r one”}]$

- [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”]
 [$* < *$ $\xrightarrow{\text{pyk}}$ “ ${}^{\text{pyk}} \text{ist}$ ”]
 [$* \leq *$ $\xrightarrow{\text{pyk}}$ “ ${}^{\text{pyk}} \text{istq}$ ”]
 [$* \not< *$ $\xrightarrow{\text{pyk}}$ “ ${}^{\text{pyk}} \text{inst}$ ”]
 [$* > *$ $\xrightarrow{\text{pyk}}$ “ ${}^{\text{pyk}} \text{igt}$ ”]
 [$* \geq *$ $\xrightarrow{\text{pyk}}$ “ ${}^{\text{pyk}} \text{igtq}$ ”]
 [$* \not> *$ $\xrightarrow{\text{pyk}}$ “ ${}^{\text{pyk}} \text{ingt}$ ”]
 [$* \neq *$ $\xrightarrow{\text{pyk}}$ “ ${}^{\text{pyk}} \text{neq}$ ”]
 [$* \wedge *$ $\xrightarrow{\text{pyk}}$ “ ${}^{\text{pyk}} \text{and1}$ ”]
 [$* \vee *$ $\xrightarrow{\text{pyk}}$ “ ${}^{\text{pyk}} \text{or1}$ ”]
 [$\exists *: *$ $\xrightarrow{\text{pyk}}$ “exists ${}^{\text{pyk}}$ indeed”]
 [$* \mid *$ $\xrightarrow{\text{pyk}}$ “ ${}^{\text{pyk}} \text{divides}$ ”]
 [$* \dots$ $\xrightarrow{\text{pyk}}$ “ ${}^{\text{pyk}} \text{ldots}$ ”]
 [frozen $\xrightarrow{\text{pyk}}$ “frozen”]

3 $\text{T}_{\text{E}}\text{X}$ definitions

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

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

[Prop 3.7c $\xrightarrow{\text{tex}}$ “
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[Prop 3.7g' $\xrightarrow{\text{tex}}$ “
Prop\ 3.7g'”]

[Prop 3.7h $\xrightarrow{\text{tex}}$ “
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[Prop 3.7j $\xrightarrow{\text{tex}}$ “
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[Prop 3.7k $\xrightarrow{\text{tex}}$ “
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[Prop 3.7k' $\xrightarrow{\text{tex}}$ “
Prop\ 3.7k”]

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Prop\ 3.7l”]

[Prop 3.7l' $\xrightarrow{\text{tex}}$ “
Prop\ 3.7l”]

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

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Prop\ 3.7n”]

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

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

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

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

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[Prop 3.7u $\xrightarrow{\text{tex}}$ “
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[Prop 3.7u' $\xrightarrow{\text{tex}}$ “
Prop\ 3.7u”]

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

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

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

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

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

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

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

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

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

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

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

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

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Prop\ 3.10d”]

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Prop\ 3.10e”]

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Prop\ 3.10f”]

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

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

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

[R $\xrightarrow{\text{tex}}$ “
R”]

[R1 $\xrightarrow{\text{tex}}$ “
R1”]

[R2 $\xrightarrow{\text{tex}}$ “
R2”]

[R3 $\xrightarrow{\text{tex}}$ “
R3”]

[R4 $\xrightarrow{\text{tex}}$ “
R4”]

[R5 $\xrightarrow{\text{tex}}$ “
R5”]

[R6 $\xrightarrow{\text{tex}}$ “
R6”]

[Con1 $\xrightarrow{\text{tex}}$ “
Con1”]

[Con2 $\xrightarrow{\text{tex}}$ “
Con2”]

[Dis1 $\xrightarrow{\text{tex}}$ “
Dis1”]

[Dis2 $\xrightarrow{\text{tex}}$ “
Dis2”]

[Con $\xrightarrow{\text{tex}}$ “
Con”]

[T0 $\xrightarrow{\text{tex}}$ “
T0”]

[T1 $\xrightarrow{\text{tex}}$ “
T1”]

[H1 $\xrightarrow{\text{tex}}$ “
H1”]

[H2 $\xrightarrow{\text{tex}}$ “
H2”]

[H0a $\xrightarrow{\text{tex}}$ “
H0a”]

[H0b $\xrightarrow{\text{tex}}$ “
H0b”]

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

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

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

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

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

[$x \not> y \xrightarrow{\text{tex}}$ “#1.
\ngtr #2.”]

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

[$x \dots \xrightarrow{\text{tex}}$ “#1.
\ldots”]

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

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

[$x \wedge y \xrightarrow{\text{macro}} \lambda t. \lambda s. \lambda c. \tilde{\mathcal{M}}_4(t, s, c, [[x \wedge y \ddot{=} \neg(x \Rightarrow y)])]$] [$x \vee y \xrightarrow{\text{macro}} \lambda t. \lambda s. \lambda c. \tilde{\mathcal{M}}_4(t, s, c, y \ddot{=} (\neg x) \Rightarrow y)]]$

3.1 Variables

4 Numerals

[$x \neq y \xrightarrow{\text{macro}} \lambda t. \lambda s. \lambda c. \tilde{\mathcal{M}}_4(t, s, c, [[x \neq y \ddot{=} \neg(x = y)])]$]

$[\text{aspect}(*, *, *)], [(\ast)], [\text{tuple}_1(*)], [\text{tuple}_2(*)], [\text{let}_2(*, *)], [\text{let}_1(*, *)],$
 $[[\ast \stackrel{\text{claim}}{=} \ast]], [\text{checker}], [\text{check}(*, *)], [\text{check}_2(*, *, *)], [\text{check}_3(*, *, *, *)],$
 $[\text{check}^*(*, *)], [\text{check}_2^*(*, *, *)], [[\ast \cdot], [[\ast -], [[\ast \circ], [\text{msg}], [[\ast \stackrel{\text{msg}}{=} \ast]], [\text{<stmt>}],$
 $[\text{stmt}], [[\ast \stackrel{\text{stmt}}{=} \ast]], [\text{HeadNil}'], [\text{HeadPair}'], [\text{Transitivity}'], [\perp], [\text{Contra}'], [\text{T}'_{\text{E}}],$
 $[\text{L}_1], [\ast], [\mathcal{A}], [\mathcal{B}], [\mathcal{C}], [\mathcal{D}], [\mathcal{E}], [\mathcal{F}], [\mathcal{G}], [\mathcal{H}], [\mathcal{I}], [\mathcal{J}], [\mathcal{K}], [\mathcal{L}], [\mathcal{M}], [\mathcal{N}], [\mathcal{O}], [\mathcal{P}], [\mathcal{Q}],$
 $[\mathcal{R}], [\mathcal{S}], [\mathcal{T}], [\mathcal{U}], [\mathcal{V}], [\mathcal{W}], [\mathcal{X}], [\mathcal{Y}], [\mathcal{Z}], [(\ast \ast := \ast)], [(\ast \ast \ast := \ast)], [\emptyset], [\text{Remainder}],$
 $[(\ast \vee)], [\text{intro}(*, *, *, *)], [\text{intro}(*, *, *)], [\text{error}(*, *)], [\text{error}_2(*, *)], [\text{proof}(*, *, *)],$
 $[\text{proof}_2(*, *)], [\mathcal{S}(*, *)], [\mathcal{S}^1(*, *)], [\mathcal{S}^\triangleright(*, *)], [\mathcal{S}_1^\triangleright(*, *, *)], [\mathcal{S}^{\text{E}}(*, *)], [\mathcal{S}_1^{\text{E}}(*, *, *)],$
 $[\mathcal{S}^+(*, *)], [\mathcal{S}_1^+(*, *, *)], [\mathcal{S}^-(*, *)], [\mathcal{S}_1^-(*, *, *)], [\mathcal{S}^*(*, *)], [\mathcal{S}_1^*(*, *, *)],$
 $[\mathcal{S}_2^*(*, *, *, *)], [\mathcal{S}^{\text{@}}(*, *)], [\mathcal{S}_1^{\text{@}}(*, *, *)], [\mathcal{S}^+(*, *)], [\mathcal{S}_1^+(*, *, *, *)], [\mathcal{S}^{\text{H}}(*, *)],$
 $[\mathcal{S}_1^{\text{H}}(*, *, *, *)], [\mathcal{S}^{\text{i.e.}}(*, *)], [\mathcal{S}_1^{\text{i.e.}}(*, *, *, *)], [\mathcal{S}_2^{\text{i.e.}}(*, *, *, *, *)], [\mathcal{S}^{\vee}(*, *)],$
 $[\mathcal{S}_1^{\vee}(*, *, *, *)], [\mathcal{S}^i(*, *)], [\mathcal{S}_1^i(*, *, *)], [\mathcal{S}_2^i(*, *, *, *)], [\mathcal{T}(*)], [\text{claims}(*, *, *)],$
 $[\text{claims}_2(*, *, *)], [\text{<proof>}], [\text{proof}], [[\text{Lemma } \ast : \ast]], [[\text{Proof of } \ast : \ast]],$
 $[[\ast \text{ lemma } \ast : \ast]], [[\ast \text{ antilemma } \ast : \ast]], [[\ast \text{ rule } \ast : \ast]], [[\ast \text{ antirule } \ast : \ast]],$
 $[\text{verifier}], [\mathcal{V}_1(*)], [\mathcal{V}_2(*, *)], [\mathcal{V}_3(*, *, *, *)], [\mathcal{V}_4(*, *)], [\mathcal{V}_5(*, *, *, *)], [\mathcal{V}_6(*, *, *, *)],$
 $[\mathcal{V}_7(*, *, *, *)], [\text{Cut}(*, *)], [\text{Head}_{\oplus}(*)], [\text{Tail}_{\oplus}(*)], [\text{rule}_1(*, *)], [\text{rule}(*, *)],$
 $[\text{Rule tactic}], [\text{Plus}(*, *)], [[\text{Theory } \ast]], [\text{theory}_2(*, *)], [\text{theory}_3(*, *)],$
 $[\text{theory}_4(*, *, *)], [\text{HeadNil}''], [\text{HeadPair}''], [\text{Transitivity}''], [\text{Contra}''], [\text{HeadNil}],$
 $[\text{HeadPair}], [\text{Transitivity}], [\text{Contra}], [\text{T}_{\text{E}}], [\text{ragged right}],$
 $[\text{ragged right expansion }], [\text{parm}(*, *, *)], [\text{parm}^*(*, *, *)], [\text{inst}(*, *)],$
 $[\text{inst}^*(*, *)], [\text{occur}(*, *, *)], [\text{occur}^*(*, *, *)], [\text{unify}(\ast = \ast, \ast)], [\text{unify}^*(\ast = \ast, \ast)],$
 $[\text{unify}_2(\ast = \ast, \ast)], [\text{L}_a], [\text{L}_b], [\text{L}_c], [\text{L}_d], [\text{L}_e], [\text{L}_f], [\text{L}_g], [\text{L}_h], [\text{L}_i], [\text{L}_j], [\text{L}_k], [\text{L}_l], [\text{L}_m],$
 $[\text{L}_n], [\text{L}_o], [\text{L}_p], [\text{L}_q], [\text{L}_r], [\text{L}_s], [\text{L}_t], [\text{L}_u], [\text{L}_v], [\text{L}_w], [\text{L}_x], [\text{L}_y], [\text{L}_z], [\text{L}_A], [\text{L}_B], [\text{L}_C],$
 $[\text{L}_D], [\text{L}_E], [\text{L}_F], [\text{L}_G], [\text{L}_H], [\text{L}_I], [\text{L}_J], [\text{L}_K], [\text{L}_L], [\text{L}_M], [\text{L}_N], [\text{L}_O], [\text{L}_P], [\text{L}_Q], [\text{L}_R],$
 $[\text{L}_S], [\text{L}_T], [\text{L}_U], [\text{L}_V], [\text{L}_W], [\text{L}_X], [\text{L}_Y], [\text{L}_Z], [\text{L}_?], [\text{Reflexivity}], [\text{Reflexivity}_1],$
 $[\text{Commutativity}], [\text{Commutativity}_1], [\text{<tactic>}], [\text{tactic}], [[\ast \stackrel{\text{tactic}}{=} \ast]], [\mathcal{P}(*, *, *)],$
 $[\mathcal{P}^*(*, *, *)], [\text{p}_0], [\text{conclude}_1(*, *)], [\text{conclude}_2(*, *, *)], [\text{conclude}_3(*, *, *, *)],$
 $[\text{conclude}_4(*, *)], [\text{check}], [[\ast \overset{\circ}{=} \ast]], [\text{RootVisible}(*)], [\text{A}], [\text{R}], [\text{C}], [\text{T}], [\text{L}], [\{\ast\}], [\bar{\ast}],$
 $[a], [b], [c], [d], [e], [f], [g], [h], [i], [j], [k], [l], [m], [n], [o], [p], [q], [r], [s], [t], [u], [v],$
 $[w], [x], [y], [z], [(\ast \equiv \ast \mid \ast := \ast)], [(\ast \equiv^0 \ast \mid \ast := \ast)], [(\ast \equiv^1 \ast \mid \ast := \ast)], [(\ast \equiv^{\ast} \ast \mid \ast := \ast)],$
 $[\text{Ded}(*, *)], [\text{Ded}_0(*, *)], [\text{Ded}_1(*, *, *)], [\text{Ded}_2(*, *, *)], [\text{Ded}_3(*, *, *, *)],$
 $[\text{Ded}_4(*, *, *, *)], [\text{Ded}_4^*(*, *, *, *)], [\text{Ded}_5(*, *, *)], [\text{Ded}_6(*, *, *, *)],$
 $[\text{Ded}_6^*(*, *, *, *)], [\text{Ded}_7(*)], [\text{Ded}_8(*, *)], [\text{Ded}_8^*(*, *)], [\text{S}], [\text{Neg}], [\text{MP}], [\text{Gen}],$
 $[\text{Ded}], [\text{S}_1], [\text{S}_2], [\text{S}_3], [\text{S}_4], [\text{S}_5], [\text{S}_6], [\text{S}_7], [\text{S}_8], [\text{S}_9], [\text{Repetition}], [\text{A}1'], [\text{A}2'], [\text{A}4'],$
 $[\text{A}5'], [\text{Prop 3.2a}], [\text{Prop 3.2b}], [\text{Prop 3.2c}], [\text{Prop 3.2d}], [\text{Prop 3.2e}_1],$
 $[\text{Prop 3.2e}_2], [\text{Prop 3.2e}], [\text{Prop 3.2f}_1], [\text{Prop 3.2f}_2], [\text{Prop 3.2f}], [\text{Prop 3.2g}_1],$
 $[\text{Prop 3.2g}_2], [\text{Prop 3.2g}], [\text{Prop 3.2h}_1], [\text{Prop 3.2h}_2], [\text{Prop 3.2h}],$
 $[\text{Block}_1(*, *, *)], [\text{Block}_2(*)], [0], [1], [2], [3], [4], [5], [6], [7], [8], [9], [\text{rule div}], [\text{R}],$
 $[\text{R}_1], [\text{R}_2], [\text{R}_3], [\text{R}_4], [\text{R}_5], [\text{R}_6], [\text{Con}_1], [\text{Con}_2], [\text{Con}], [\text{Dis}_1], [\text{Dis}_2], [\text{T}_1], [\text{T}_0],$
 $[\text{H}0a], [\text{H}0b], [\text{H}_1], [\text{H}_2], [\text{S}10], [\text{Prop 3.2}], [\text{Prop 3.2i}], [\text{Prop 3.2j}_1], [\text{Prop 3.2j}_2],$
 $[\text{Prop 3.2j}], [\text{Prop 3.2k}_1], [\text{Prop 3.2k}_2], [\text{Prop 3.2k}], [\text{Prop 3.2l}_1], [\text{Prop 3.2l}_2],$
 $[\text{Prop 3.2l}], [\text{Prop 3.2m}_1], [\text{Prop 3.2m}_2], [\text{Prop 3.2m}], [\text{Prop 3.2n}_1], [\text{Prop 3.2n}_2],$
 $[\text{Prop 3.2n}], [\text{Prop 3.2o}], [\text{Prop 3.4}], [\text{Prop 3.4a}_1], [\text{Prop 3.4a}_2], [\text{Prop 3.4a}],$
 $[\text{Prop 3.4b}], [\text{Prop 3.4c}_1], [\text{Prop 3.4c}_2], [\text{Prop 3.4c}], [\text{Prop 3.4d}_1], [\text{Prop 3.4d}_2],$
 $[\text{Prop 3.4d}], [\text{Prop 3.5}], [\text{Prop 3.5a}], [\text{Prop 3.5b}], [\text{Prop 3.5c}], [\text{Prop 3.5d}_1],$

[Prop 3.5d₂], [Prop 3.5d], [Prop 3.5e₁], [Prop 3.5e₂], [Prop 3.5e], [Prop 3.5f₁], [Prop 3.5f₂], [Prop 3.5f], [Prop 3.5g₁], [Prop 3.5g₂], [Prop 3.5g], [Prop 3.5h₁], [Prop 3.5h₂], [Prop 3.5h], [Prop 3.5i₁], [Prop 3.5i₂], [Prop 3.5i], [Prop 3.5j₁], [Prop 3.5j₂], [Prop 3.5j], [Prop 3.7], [Prop 3.7a], [Prop 3.7b], [Prop 3.7c], [Prop 3.7d], [Prop 3.7e], [Prop 3.7f], [Prop 3.7g], [Prop 3.7g'], [Prop 3.7h], [Prop 3.7i], [Prop 3.7j], [Prop 3.7k], [Prop 3.7k'], [Prop 3.7l], [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], [* ^ν], [* ^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

[* $\overset{B}{\approx}$ *], [* $\overset{D}{\approx}$ *], [* $\overset{C}{\approx}$ *], [* $\overset{P}{\approx}$ *], [* \approx *], [* = *], [* \dashv *], [* $\overset{t}{=}$ *], [* $\overset{t^*}{=}$ *], [* $\overset{r}{=}$ *], [* \in_T *], [* \subseteq_T *], [* $\overset{T}{=}$ *], [* $\overset{s}{=}$ *], [* free in *], [* free in* *], [* free for * in *], [* free for* * in *], [* \in_c *], [* < *], [* <’ *], [* ≤’ *], [* = *], [* ≠ *], [* ^{var}],

[*#⁰*], [*#¹*], [*##*], [* < *], [* ≤ *], [* \not *], [* > *], [* ≥ *], [* \not *], [* ≠ *];

Preassociative

[¬*];

Preassociative

[* ∧ *], [* $\ddot{\wedge}$ *], [* $\tilde{\wedge}$ *], [* \wedge_c *], [* \wedge *];

Preassociative

[* ∨ *], [* || *], [* $\ddot{\vee}$ *], [* ∨ *];

Preassociative

[∃* : *], [∀* : *], [∀_{obj}* : *], [∃* : *];

Postassociative

[* $\dot{\Rightarrow}$ *], [* ⇒ *], [* ⇔ *];

Postassociative

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

Preassociative

[* $\left\{ \begin{array}{l} * \\ * \end{array} \right.$ *];

Preassociative

[λ* . *], [Λ* . *], [Λ*], [if * then * else *], [let * = * in *], [let * $\ddot{=}$ * in *];

Preassociative

[*##*];

Preassociative

[*^I], [*[▷]], [*^V], [*⁺], [*⁻], [**];

Preassociative

[* @ *], [* ▷ *], [* \triangleright *], [* \gg *], [* \triangleright *];

Postassociative

[* ⊢ *], [* ⊢ *], [* i.e. *];

Preassociative

[∀* : *], [Π* : *];

Postassociative

[* ⊕ *];

Postassociative

[* ; *];

Preassociative

[* proves *];

Preassociative

[* **proof of** * : *], [Line * : * \gg * ; *], [Last line * \gg * □],

[Line * : Premise \gg * ; *], [Line * : Side-condition \gg * ; *], [Arbitrary \gg * ; *],

[Local \gg * = * ; *], [Begin * ; * : End ; *], [Last block line * \gg * ; *],

[Arbitrary \gg * ; *];

Postassociative

[* | *];

Postassociative

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

Preassociative

[*&*], [→];

Preassociative

[**], [* linebreak[4] *], [**], [* | *], [* . . .];]