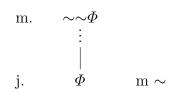
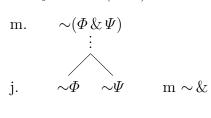
Tree Rules for Sentential Logic (System STD)

Double Negation (\sim)

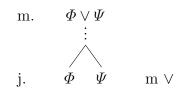


Conjunction (&)

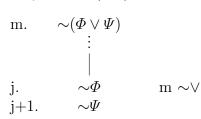
Negated Conjunction ($\sim \&$)



 $Disjunction (\lor)$



Negated Disjunction $(\sim \lor)$



 $Conditional (\supset)$

Negated Conditional $(\sim \supset)$

m.
$$\sim (\Phi \supset \Psi)$$

 \vdots
 \downarrow
j. Φ m $\sim \supset$
 $j+1$. $\sim \Psi$

 $Biconditional \ (\equiv)$

 $Negated\ Biconditional\ (\sim\equiv)$

m.
$$\sim (\Phi \equiv \Psi)$$

 \vdots
j. $\Phi \sim \Phi$ m $\sim \equiv$
 $j+1$. $\sim \Psi \quad \Psi$