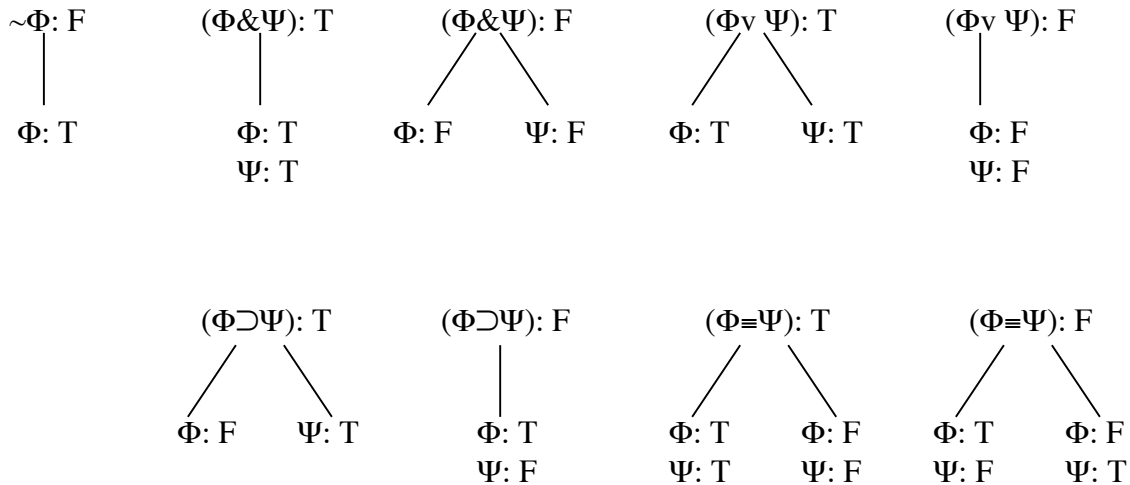


Signed Tableaux Branching Rules for 2-valued Propositional Logic

(Atomic sentences have no branching rule associated with them)



These rules can be used when testing any set of formulas for consistency, including the case when there is only one formula in the set. Their general use is to test whether an argument is *valid*, by setting all the premises ‘: T’ and the conclusion ‘: F’, and testing that set for consistency. The special case of testing a formula for being a tautology (a propositional logical truth) is done by considering it an argument with that formula as a conclusion but having no premises. So one would begin the tableau with just that formula being signed ‘: F’.