





	Building Blocks for Proof Sequences
•	Equivalence rules (two-way), p. 23. Notice that these <i>can</i> be applied to parts of wffs.
	Example: "Implication" says that if we have $P \to Q$ we can replace it with $P' ~\vee~ Q,$ or vice versa.
•	Inference rules (one-way), p. 24. Notice that these <i>cannot</i> be applied to parts of wffs.
	Example: "Modus ponens" says if we have $P \ \to {\sf Q}$ on one line, and P on another, we can write down a new line $Q.$
•	"Deduction method": To show that $P_1, P_2, \ldots P_n$ guarantee conclusion $R \rightarrow Q$, we can show that $P_1, P_2, \ldots P_n, R$ guarantee Q
•	Derived inference rules, p. 31. Notice that many of these are proved as problems, and you should only use them for later problems. (E.g., okay to use the results of problem 23 in problem 25, but not vice versa.)









