

(*) Derived Rules:

↳ Logical rules can be derived (or) proven for basic rules of logical system.

(*) Derived Rules In Propositional Logic:

i) Modulus Ponens (MP)

P (antecedent)

Q (consequent)

$P \rightarrow Q$ (ie) from " P ", we can derive ' Q '.

ii) Modulus Tollens (MT)

$P \rightarrow Q$ is conditional statement

P (antecedent), Q (consequent)

$\neg Q$ (negation of consequent)

$\neg P$ (negation of antecedent)

eg. ($P \rightarrow Q$ and $\neg P \rightarrow \neg Q$)