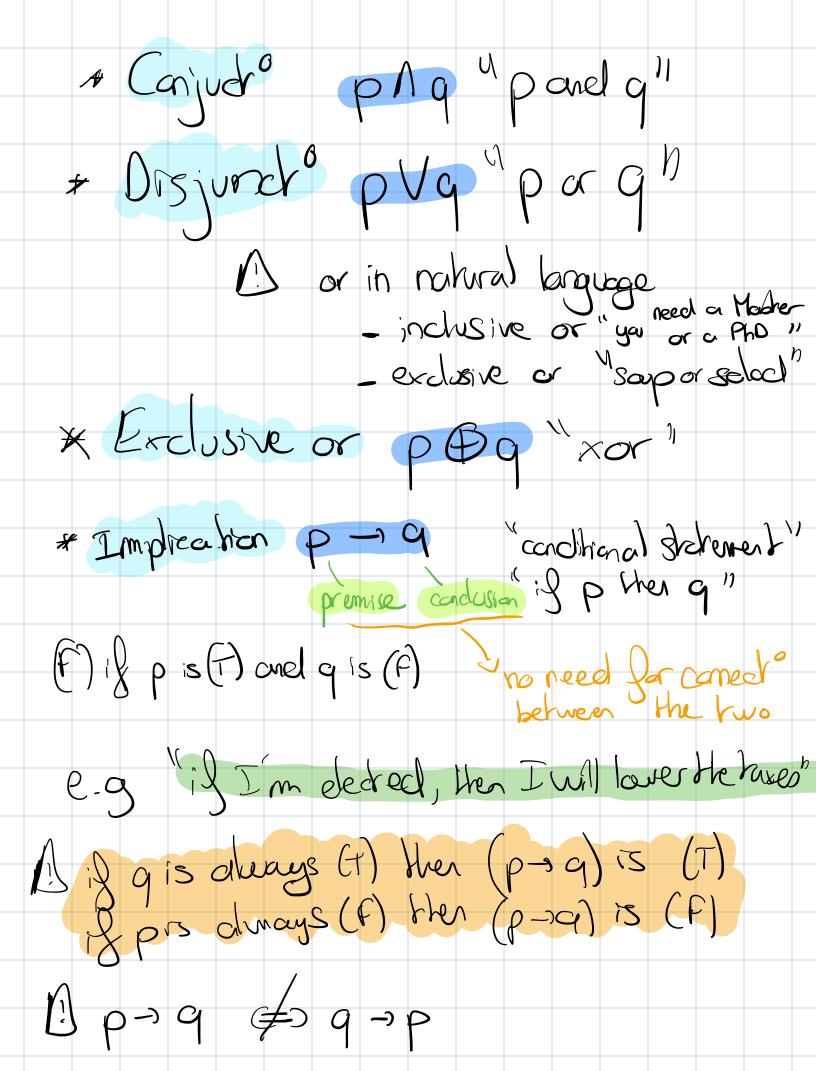
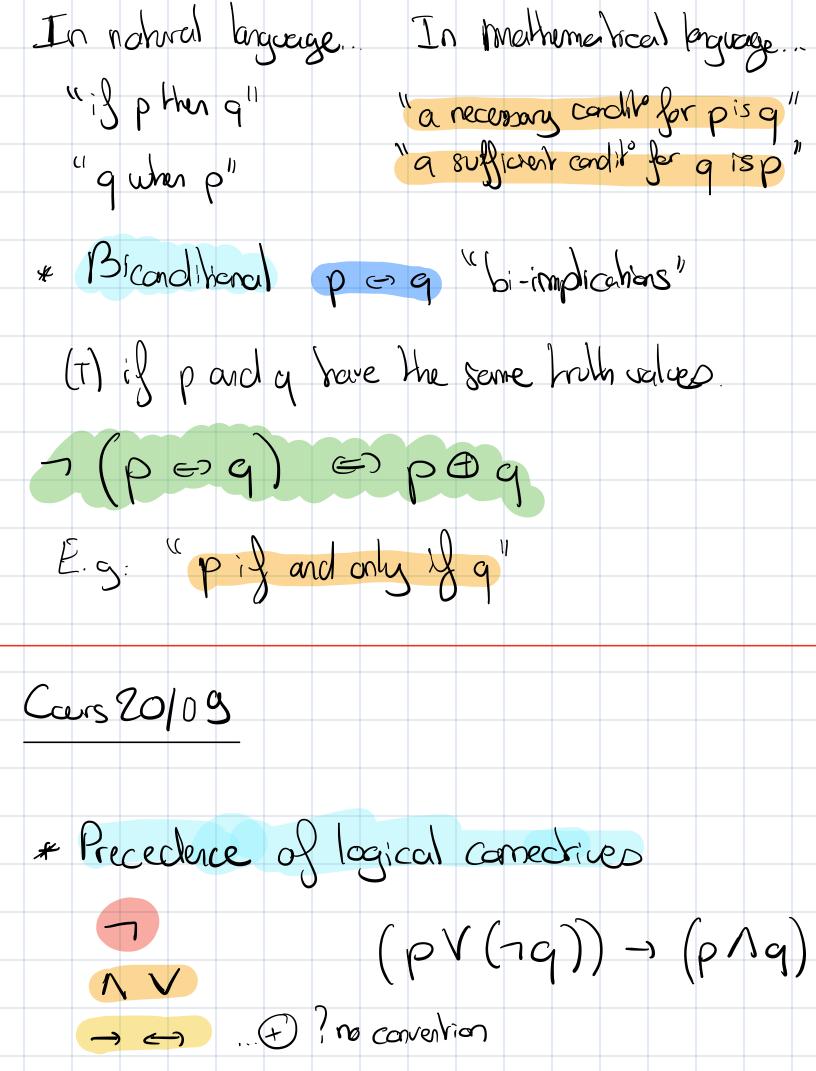
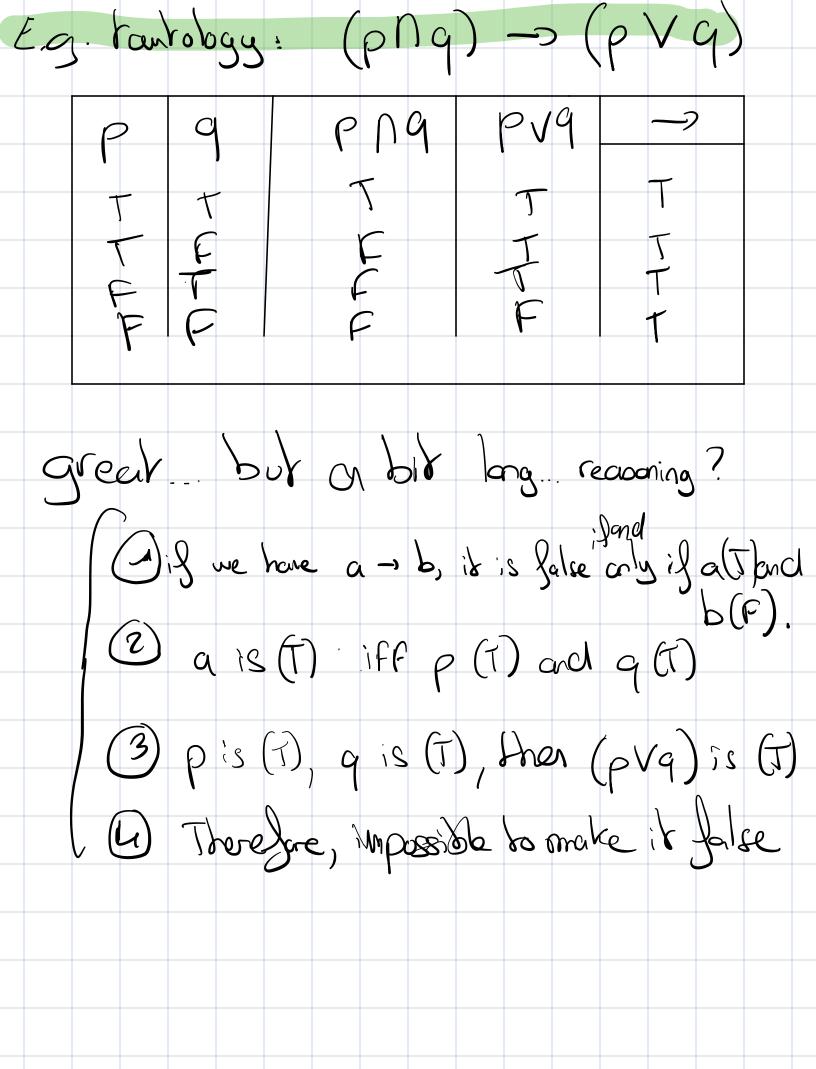
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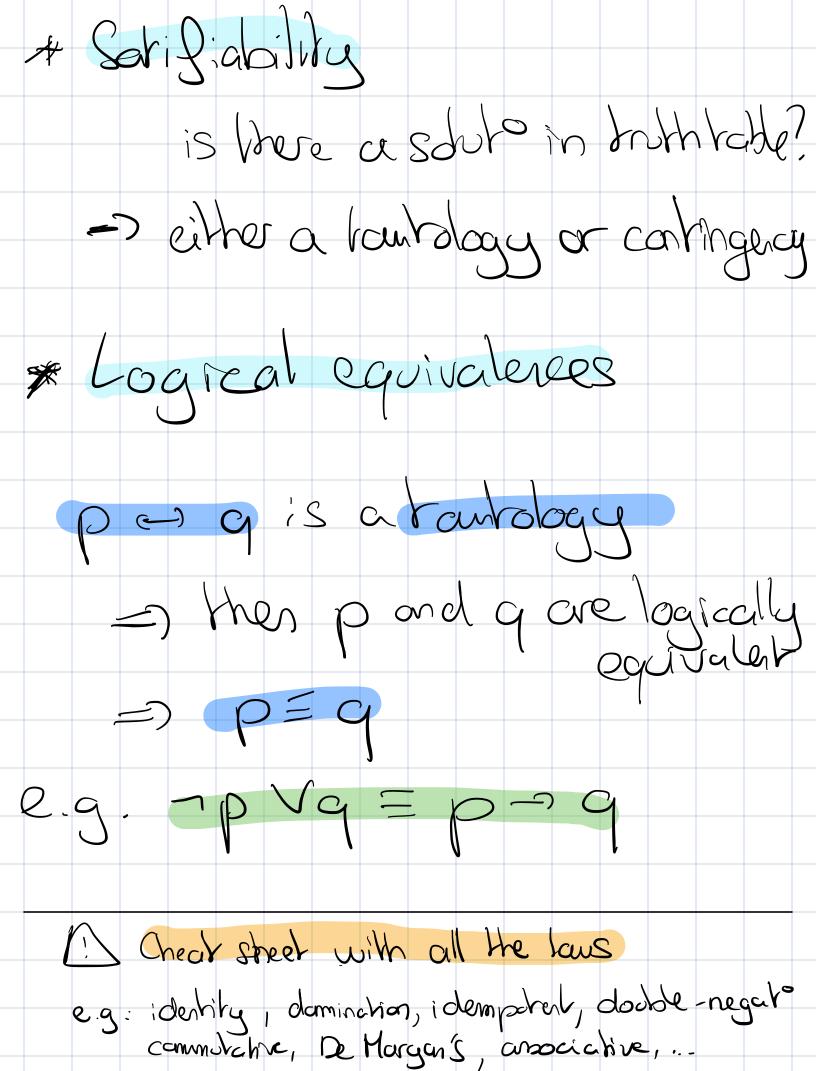




P:= "it is below freezing"

9:= "it is Snawing" P => 9 "I'mpique l'autre" * Clarel - Tantology always tre eg prop - Contradiction always false eg p 17p - Contingency Sometimes true false eg. P





$$\neg (\rho \vee q) = \neg \rho \wedge \neg q$$

$$\neg (\rho \land q) = \neg \rho \lor \neg q$$

$$q \rightarrow \rho = \neg p \rightarrow \neg q$$

* Equivalence Pooofs e.g. Show that > (pV (spla)) = splag · pn n (Tp Na) = pn ng Pe Morgon $\bullet \neg \rho \cap (\rho \vee \neg q) = \neg \rho \wedge \neg q \quad \text{Oobrib.}$. -p \ -q = -p \ -q \ Neg. Law
(T) eg. show Mar (pVq) - (pVq) · - (P) q) low or condit. $\bullet \quad (\neg \rho \lor \neg q) \lor (\rho \lor q) \rightleftharpoons \tau.$ (7) Associative

