PHL245 Jan 7th Notes on iPad. This is for review. Lecture 1 Review for term #1. Pif Q: Q->P Pany if Q: P->Q Whenever P. Q: P->Q
P provided Q: Q-P Pon the condition that Q. Q-P P only on the andition that Q: P-Q Q is necessary for P: P-Q Q is sufficient for P: Q-P and but as well as , although ... however yet also in addition to, moreover, even though, ... or, unless, eitherfor, else, otherwise,... V iff it's necessary & sufficient either-or . whom and only when exactly on condition that, - just in case .- , is equipment to, exactly when, neither, nor ~PVQ), ~PMQ not both ~(PAQ), ~PV~Q. exclusive or, exactly one of two. ~ CPC> @ (PE>NO), (NP >Q), ((PNO) / (PNO)) · Parsing sentences.

Derived rule. Negetion of Conditional nc or NC ~ (\$\phi = \psi\$) undian $\phi \rightarrow \psi$ (djorCD) $\sim \phi V \psi$ Conditional as disjunction Separation of cases & OVY \$\phi \times \chi sc or Sc / \$>X horney ged calse in DeMorgan's din or DM $\sim (\sim \psi \sim \psi) \leftrightarrow \phi \wedge \psi$ ~ (phy) <> ~ pynt by squee of the company Negation of Biconditional nb or NB ~~(pe>t) (ce + 1/1) (20 x 2)

	Basic rules: (MP)	Mochys Tolkens (MT)
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	\$ \$0 20 \$\psi\$	Ny my
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	01 270	7. 2
	Double Negation (DN) P P P	Repolition (R)
	$\phi \sim \phi$	φ
	and p	$\overline{\phi}$
	,	
	Simplification (S/SL/SR)	Adjunction (Adj)
	$\phi \wedge \psi$ $\phi \wedge \psi$	φ φ
	Ψ	Y
	·	Ψnψ
•	Addution (ADD)	Modus Tollers Ponens (MTP)
	φ ψ φνψ	$\phi \lor \psi \qquad \qquad \phi \lor \psi$
	φνψ φνψ	λφ λψ
		φ
	0 11 1 6 1 1 10	
anna an	Biconditional (BC)	<u>(B)</u>
	9 9 9	$\psi \rightarrow \psi$
	$\downarrow \varphi \rightarrow \varphi \qquad \varphi \rightarrow \varphi$	$\psi \rightarrow \phi$
		V-N
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