lec # 9 Pules of Injurace. Principle of Resolution.

- literal: - A Variable or negation of a Variable. e, 79 - danse: Disjunction of literals. frq, 7p vq vx Guneral form of an Argument. P1 C<sup>2</sup> PL PAQ  $\Leftrightarrow$ P→9 = 7P>9. Ex: 65 P2:- P Page Pagnager. 76: P-1Q c = A TPV9 MIGNE TPÁZ C1:- P CZ: TPVQ V -91/P-C3; 7Q. V C4: 9 From C1, CL CS: 0 From C3, C4. Resolution. PV W JOUV Y.

P65 P2: T→ (MVE)

P65 P2: S → 7E

P3: TA<

PTQ = TPYQ.

巨K子 !-P1: P-a P2: ¬P→Y P3:- 1 → S C:- ¬Q→S. 1962 7 (79 -> s). 7 ( QVS). C1: 79 V9 V C2: 9 V8 V C3: 78 V5. V C4: 79 V C5: 75. V = 79 d-15. Co:- QVO from C1, C2. C7:- 9, VS +1 am C3, C6. L C8:- S " C4, C7 ~ u C8, C5 Cq:  $\Box$ EXO :- BL: L -> A P62 P3: 是 → TI P3:- A → E  $\neg ( L \rightarrow \neg I).$ 7(7LV7I). 2 L N E. C1:- 7LVA / C2:- 7EV7Z 2 L 2 P. C3: TAVE V a:- L / CS'- I. C6: 7LVE from chc3. C7: 7LV7L " C2, C6 ~ C8:- 72 " C7, C4 ~

11 U C8, C5

C9 =