LOGIKA

Konnhala ... lub ... alternativa (jest) ... to ... in plinaga . utedy i tello vtedy poly... Opentan ands neoecla zmienne bojune

jesti p. to q GUAN N0/5 XOR $| p \Rightarrow q | p \Leftrightarrow q$ $p \wedge q$ $p \lor q$ $p \mid q$ $p \oplus q$ 1 1

 $P = (Y) \times (S \times Q) \oplus (Q \Rightarrow P)$ Def. Formile boginha 1) Pojedynara 2 merre bepluse fest p.9,5 formile loglurg. 2) Yolding to the sp formulemin Lophyms, to $(\varphi \circ \psi)$ (et formite belong the doubliness)

fultore durarpmentoreps o.

3) Yeieli & Jest formite belong, to jet formulp beling. 4) Nic inneps we jest formulp beling.

Def. Hartosdovairem 2 milery de bojung de horsument doudre finhere, letine leaider monsument bojunes pur perpetrouse 0 lub 1. > v: {p, q, r, ..., p1, p2, ...} -> {0,1/y Def. Tautologie hery semy formule littere de doudreps montoichouaria emenda (u rieg mystepripayah) prnymye vartosó 1. {0,13° → 30,14 fulique loglura formila Def. Formily of it herinemy vounouringmi, peidi dle heider nowhilo name v mony $\sqrt{(\phi)} = \sqrt{(\psi)},$ Pissemy Wedy $\varphi = \psi$.

In. (Proud rechuch iden) p = q = q = p $p \wedge q \equiv q \wedge p$ $p \neq q = q \neq p$ pvq = qvp $\rho \mid \varphi \equiv \varphi \mid p$ = 9 1 9 play provo premernoso $\mathcal{V} \vee (\mathcal{S} \vee \mathcal{L}) = (\mathcal{V} \vee \mathcal{S}) \vee \mathcal{L}$ $p \vee (q \vee r) = (p \vee q) \vee r$ $(p \oplus q) \oplus r = p \oplus (q \oplus r)$ provo Tpursich $p \wedge (q \vee r) \equiv (p \wedge q) \vee (p \wedge r)$ $p \vee (q, \wedge r) = (p \vee q) \wedge (p \vee r)$ prava rozdzielnách $\neg(p \land q) = \neg p \lor \neg q$ $7(p \vee q) = 7p \wedge 7q$

preva de Morgena

gest teutologie reductive 2des.

n embernal -> 2h proposition