notation is used for p1 P2 V ... Upni (2) Nj=1 pj is used for P1 1 P2 N wph int nes = 0; -> when OR 1 for (int j=1; jz=n; j++) 2 when and A for (int j=1; j <=n; j++) { hes &=p[j]; Sudonu parte as satisfial. -> code (B) + Pouspeed for set ationed is 1 (C) + Conspeed for set ationed it implication whenever is "it" $(a) \cdot (p \vee q) \rightarrow (p \oplus q)$

 $\rightarrow (p \land q)$ (B) (P+9) (pug) (opposite of F) (opposite of T) (d) $(p \leftrightarrow q) \oplus (\neg p \leftrightarrow q)$ 1 F F

→ (p D -19)
9 P D 9 P D -19
F (p @q) → (p@ 79) (2) -p 29 (35) (q) (c) (p - q) v(-p - q) (d) (p - q) 1 (-1p - q) (p->9) V(-1p->9) (e) (p => q) V (-1p => q) (f) (-1p => -1q) => (p => q) end (be d)/(hbod) (horal) (horal)

when at least one is T and at least one is F, but is F when all var's have same trueth table?

(pvqvr) => T if any of p,q, r=T +

(pvqvr) => F if larry of p,q, r=F +

(both statements are T, => entire statements are T, => entire statements one F amonty thurst values.