Marmal Forms.
1.0((P->Q) (-Q->-P)) AR
= ((PVQ) ex (QVP)) AR
E ((TPVQ) (TPVQ)) NR ET NR
DNF = CNF = R
b) P V (-P V (Q N -Q)) = P V (-P V F)
E PV 7P
DNF = CNF = T
c) (PA(QAS)) V(PA(QAS)) = (PVP) A (QAS)
= T \ (Q \ Q \) = Q \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
DNF = CNF = Q AS

20 DNF = (PATO) V (PAO) V (PAO) MONE: (PADAR) V FRAN R) V (PATA AR) V (PARA ATR) V (TPATRAR) V(TPATRATA) ODNF : POOR 3 a) (4n) (P(x) -> (Ey) Q(x,y)) = 4n (P(n) v7, O(n,y)) = V2 3y (7P(2) va(2, y)) (4n) (4y) (((3e))P(n,y,2) n(3y) a ((v, y) Q (vE) ((v,x)) ((v,x)) ((v,y)) ((v,y)) E (Ya)((-(32) P(x,y,2) Y - (34) (Q(x,4)) V(3x) Q(y,4)) E (4m)(4g) (((4z) -P(n,y,z) V (4u) - Q(n,u)) V (3v) Q(y,v)) E(4x)(4y)(4z) (4u)(3v)(17p(x,y,z) V-Q(x,u)) V Q(y,v)) 4. 0) (3x) P(x) v (3x) Q(x)) -> (3x) (P(x) v Q(x)) 3 (7 (3 x) (2) v (3610(n)) v (361) ((x) v a(x)) 2 (7(3x)p(x) 1 (7x) Q(x)) V (3x) (P(x) V Q(x)) {((42) - pge) 1 (42) 7 (2(x)) V (32) (80) V (6(2)) 3 yy Yu 32 ((P(y) ~ 7 (64)) V (P(Z) V Q(Z)) ((w) 0 - V (E) Q V (E) Q V (E) Q V (E) 9)) SENDING Prenax DNF = Yyuzz ((7p(y)) + Q(u)) V (2) V Q(2)) Prenax CNF= NJYW32 ((p(2) V (2) V 7 (y)) 1 (p(2) V (Q(2) V 7 Q(u))

6) (Vx/Vy)(p(x) - Q(x,y)) - ((=y)(p(y) (=z) Q(y,z)))
€ ((x, (y)) (2p(x) × ((x, y)) → ((3y) (P(y)) ∧ (E2) ((y, 2))
3 - (A) (A) - (2) (D) A ((2)) N ((E) (b) ((E) (C() (s))
4 323, 7 (7p(x) v a(n,y)) v ((Eg)(p(y) A(Ez) (a(y,z))
2 3 x 3 y (P(x) 1 2 (2, y)) v ((Ey)(P(3) 1 (Ez) Q(y, z))
6 3 n3y (Pm) 1 - Q(n, y)) y ((Em) P(m) 1(Ez) Q(m, z))
5 32343m32 ((pm) 120(x,4)) v (pm) 10(m,2))
¿ 3n 3 - 3n 32 ((P(a) VP(m)) A (P(a) V Q(m, Z)) A Q(n, u) VP(m))
1 (0 (2, w) v Q(m, 2)),
Land Carlot and the second of
Prinax DNF = 3224 3m 32 ((P(2) 10 (21,4)) V (P(M) 10 (M, Z)))
Prenax CAF: 3234 3m == ((p(x)) ((m))) 1 (Por vo(m, z)) 1
(Q(2,4) VP(m)) 1 (Q(2,4) VQ(m2)1)
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