•56F:

1,5,2,71,75,72, 1172,71 V(5172),2->78, 75-)(2->7l), lv[75-x2->7l)) , d(...).

· Tabel de adorin.

| 1 1 7 7 F | 12 78 V(JN79 | 1/2 ->7l | 170 -5/2-78 | 2/2/170->6- | nl)/a |
|-----------------|--|----------|-------------|--------------|----------|
| TTFT | \ \frac{1}{\(\tau_{\text{\tint{\text{\tiny{\tint{\text{\tiny{\tint{\text{\tiny{\text{\tiny{\tiny{\text{\tiny{\tiny{\text{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\text{\tiny{\tiin}\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tiny{\tin | F | 7 | T | F |
| TFFF | F | [F] | F | T | 1 = |
| ETF T | 7 | T | T | <u> </u> | 14 |
| FIFIFI F | T | + | T T. | T | / † - |
| · Substitution. | ′ 1 | 1 | 7 | | 7 |

dr = d

· Anbor. Le structuri

$$7.0) + (70 V X) \rightarrow ((V \rightarrow X) V (7X \rightarrow 70))$$

$$APA \cdot \alpha = (70 V X)$$

$$\beta = (7X \rightarrow 70)$$

$$51 = \overline{\alpha_8} \left\{70 V X \middle| \mathbf{a}, \mathbf{x} \times \rightarrow 70 \middle| \mathbf{b}\right\}.$$

$$= \left(\left((70 V X) V (7X \rightarrow 70)\right) \leftarrow ((201 X) \rightarrow (7X \rightarrow 70))\right)$$

$$52 = \left(007 X \rightarrow (70 V X) \rightarrow (70 V X) V (7X \rightarrow 70)\right), \frac{57}{52} \mathbf{E}I.$$

$$53 = \mathbf{E}I.$$

$$54 = (70 V X) \rightarrow ((201 X) \rightarrow (71 X \rightarrow 70)), \frac{5}{54} PP.$$

$$55 = (70 V X) \rightarrow ((71 X \rightarrow 70)), \frac{55154}{6} MP.$$

$$54 = \left((70 V X) V (7X \rightarrow 70)\right) \leftarrow (...) = 57.$$

$$59 = 52 \frac{57}{68} EI.$$

$$59 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$51 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$51 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$51 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$51 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$52 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$53 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70), \frac{56158}{59} MP.$$

$$54 = (70 V X) V (7X \rightarrow 70)$$

$$54 = (70 V X) V (7X \rightarrow 70)$$

$$54 = (70 V X) V (7X \rightarrow 70)$$

$$54 = (70 V X) V (7X \rightarrow 70)$$

$$54 = (70 V X) V (7X \rightarrow 70)$$

$$54 = (70 V X) V (7X \rightarrow 70)$$

$$54 = (70 V X) V (7X \rightarrow 70)$$

$$54 = (70 V X) V (7X$$

SCHITA - B.48

3. GENTZEN.

5= \((7 \name \name \name \name), \((\name \name \n

68: n, = \((70 vz), (v v(enw)), 723 =) \(\text{O} \nw\).

61:12=570V2, DV(Anw)3=> [2, Anw].

(6: 13={70 v2 , 2 v(0 nw)} =>52,0}

142572V2, 2 V(OAW)3 >> 52, W3

63: 03 = <70 V2, 03 => 577, 0 nw)

04= 777 VZ, ONW} => 52,01W}.

63: 15=577,77 >> 57, 8 nw>

16= [2,]) => [7, A nw]. ver wiron

67: 12= 503 >> 50,2,61W) vor. wiom.

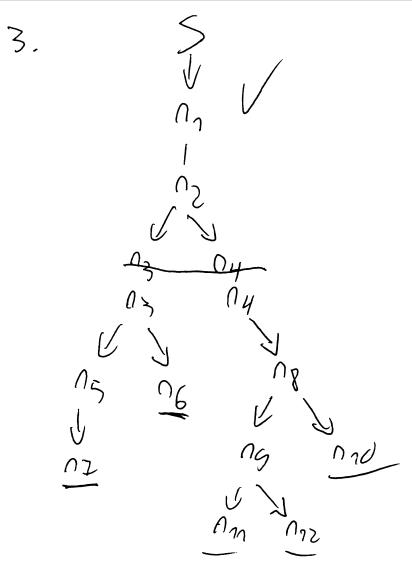
63:08= \70,00W)

62: Ng= 570 V2, 0, W3 => 52,00 W3.

63: ng={71,0,w}=>{2,0nw}

070 - 52,0,W) -> (2,01W). vero. Wion

66:00 = 972,0,00 => 972,00) ~ vero wison. 12 = 972,0,0) => 972,00



•

Petrubrus Mihai - Zilvin 4. SW=[2V70V7BVa, 7aVBVOV9, 7gVaV7B, OV72VB] · Testru 2=79 d2 = [79 VaV7β, θV79 Vβ] La =) g v 70 V 7B Va, 7a VB V & V2) d2 = 8 POS (d) = [av7B, & VB] NEG_(d)= < 70 V7BVM, 70 VBV&) REZZ (d) = (av7BV70Va, av7BV7avBVO, OVBV7OV7BVa, 4 (OVBV7aVBVO Elininam tautologisle la REZZ (d) si definem. REZ, (d) = [av7BV70, OVBV70]. · Destru 2 = 0 d2 = 19 v 70 v73 va, 79 vav7 3) dz = 57aVBV&V93 da = J& V79VB) PUSZE()=(0V79VB, QU70V7B, 79V7B) NEGZ(d)=(OV79UB, BVOV9) REZZ (d) = [0 V79 UB, BVO VQ V 70 V7B, BVO VQ V7g V7B].

Eliminand tautologisle obtiven. REZZ (d) = \6 V79 VB).

```
· Algoritm boset pe violetie.
Initializar: MG (2 V70V1BVA, 70VBVOV2) 79 VAV 7B, OV72VB)
Iteratia 7: Nu literation clause unitore si nici literali prusi
         alogon 2 = 4 literal
         2 - REZ (pr) = (av78 v76, &v 13 v7a)
                       (dura lleminous tautologiilos)
Iteratia Z: Nu exista clause unitore zi sui literali suri
         alegen 7 = a literal.
          2 - RE7 (p) = (7BV70 VBV0)
          Eliminam toutologile
          2 \in \emptyset
Iteration 3: pr=0 => verite "Validabità", sw & trul => STOP.
· Dovis - Putnan.
Initializor: pc (2170 V7BVa, 700 BVOV9, 79 Va V7B, 6 V72 VB)
            swefale, Ted
Italiatia 1: Nu laista literal pur son clouses unitoris
           alegron & 2 = 4 literal.
            ME NEGZ (M) = SaV7B, QVB)
            TEPOSZ (p)= 570 V7BVA, TAVBVG).
Iteration 2: 2 = a literal mus; y C NEGa (y) = (AVB)
Iteration 3: 2= & literal nur , pre NEGA (M)=0.
Iteration 4: 18=0; NET= 170V7BVa, 70VBV6).
```

Iteratics: Mu stirti literal pur san clauzo visitoro.

alegen 2 = a literal.

y C NEGa (p) = \(70 \nabla \nabla \ta)

T & POS a (p) = \(70 \nabla \nabla \nabla \)

Iteration 6: \(\lambda = \beta \) literal pur

y C NEG \(\beta \) = \(\beta \)

Iteration 7: \(y = \mathcal{O} \), \(y \in T = \mathcal{O} \).

Iteration 8: \(\lambda = a \) literal pur

y C NEG \(\lambda \lambda \lambda \rangle \nabla \)

Iteration 8: \(\lambda = a \) literal pur

y C NEG \(\lambda \lambda \lambda \rangle \nabla \lambda \lambda \nabla \nab

Iteration 9: IN - OF IN White (") Telial dila"), or

Iteratia 9: p > Ø ∋ xvite ("Validabila"), sw ∈ hul

5. 2=(dV7p)->((7dV7)->(7pv7)) / 5. FAC = CNF. $T_2: 7(dV7p)V(7(7dV\eta)V(7pV\eta))$ Ts: (7d n pr) V (d 1777) V (7 prvn) τ₅ (7dηγ) ν [(dνηρνη) η (7ηνηγνη)]. T5: (7dApr) V (d V7pr vn) 7dVd V VdV7pvn)
(7pvdv7pvn)
N(pv2qv7pvn)
N(pv2qv2pvn) (Idvd V7prvn) Faro toutologi: (7pvdvg):=CNF. I(2) = I (dv7/m) -> (I(7dv7) -> I(7/mv7)) =7(I(d) V7I(W)) V (7(7I(d) VI(7)) V (7I(M) VI(7)) $= (7I(d) \Lambda I(p)) V ((I(d) \Lambda 7I(\eta)) V (7I(p)) V I(\eta))$ $= (...) V [I(d) V 7I(p)) V I(\eta)) \Lambda (7I(\eta)) V 7I(p) V I(\eta))$ de sostinuet re wrat.

```
Tetalores Mihai - Vilois
CNF:
T2: 7(dV7p) V (7(7dV7)) V (7p V7))
T3: (7dn pr) V (d177) V (pr v7)
     (7dNp) V (av 77 vn) 1 (27 v7 v7))
     (7dnyr) V (dvzpvn)
      (IdvdV7pvv7) A(pr
JM Ng Na
I(2) = I (dv7/m) -> [I(7dv7) -> I(7/mv7))
      =7(I(d)V7I(W)) V (7(7I(d) V I(n)) V (7I(M)VI(n)))
      = (77(a) N I(p)) V((I(d) V 7I(p) V I(\eta)) \Lambda (7I(\eta) V 7I(p) V)
= (77(a) N I(p)) V((I(d) V 7I(p) V I(\eta)) \Lambda (7I(\eta) V 7I(p) V)
      = (TI(d) (12/p)) V I(d) V 7I(p) VI(7)
     = (7](d) V J(d) V 7](p) V I(y)) 1
               (I(h) NI(y) NI(h) NI(y))
```

こ TハT=T,