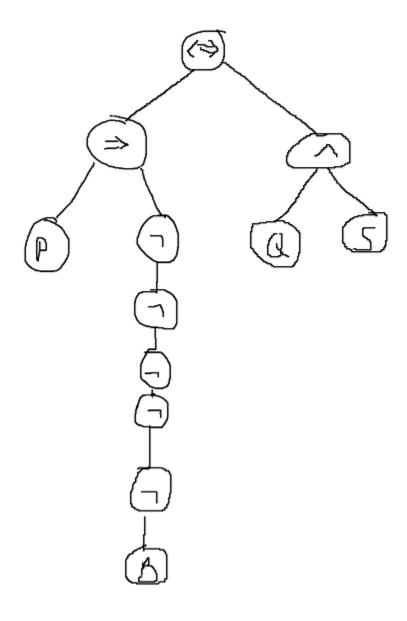
- a) $P \land Q \Rightarrow R(\neg B) \lor G nu$ este propozitie in forma relaxata pentru ca nu respecta sintaxa.
- b) $P \Rightarrow \neg\neg\neg\neg B \Leftrightarrow Q \land S$ devine $((P \Rightarrow (\neg(\neg(\neg(\negB)))))) \Leftrightarrow (Q \land S))$ in sintaxa stricta.



- A. Superman poate sa previna raul (0)
- B. Superman vrea sa previna raul (1)
- C. Superman este lipsit de puteri (1)
- D. Superman este malefic (0)
- E. Superman previne raul (0)
- F. Superman Exista (0)

$$(((((\neg A) \Rightarrow C) \lor ((\neg B) \Rightarrow D)) \Rightarrow F) \Rightarrow E)$$

$$(((1 \Rightarrow 1) \lor (0 \Rightarrow 0)) \Rightarrow 0) \Rightarrow 0)$$

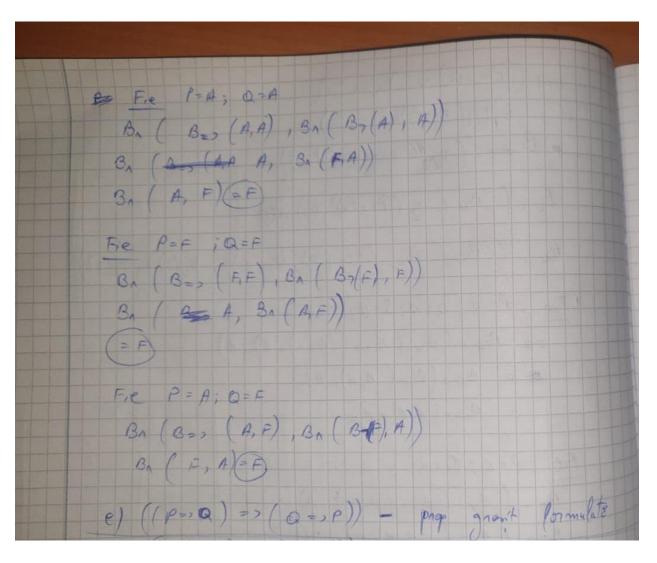
$$(((1 \lor 0) \Rightarrow 0) \Rightarrow 0)$$

$$0\Rightarrow0\Rightarrow0$$

1

3) Exercitiul 3 se afla pe pagina urmatoare. A fost rezolvat pe caiet si a fost necesara o poza. Dimensiunile acesteia nu au incapat in spatiul alb de pe aceasta pagina. :D

```
a) (((=, a) vs) => +)
    νη(((( P+>Q)νS) (=>T)) =
 = B == ( v, (( P=> Q) VS)), T) =
  B=> ( Bv (2/ (Pa,Q)), VP)) +qt)
  Bos (Bu (B=, (V1 (P), V1 (Q)), V2(E)) , V2(T))
1. Tre P-0; Q-4; S-4; T-4 =
  = & BG > (BV (B= > (A,A),A),A)
   = BE> (BV (A,A), A)
    = B=> (H, H) (H)
Fie P=A; Q=A; &=A; T=F
 Bes (Bu (Bas (A.A) , A) , F)
 Bes (BV (A,A), F) = (F)
Fie P=F Q=F S=F; i=A.
Be, (By (Be, (F, F), F), A)
 BE > (By (Bes (F), A) = A)
b) ((P=> (QA (S=>T))))
   $ v ((1 => (an (s=>T))) -> - lormule grevit formate
c) ( 7 ( B ( 70)) 12 - formula great formate
 d) 1/P=2Q) 1 ((2Q) NP)
    VT (( P=>Q) A((7Q)AP))=
      Br ( UT ( P= ) Q) , VT ( ( ) Q A P)
     B. ( B=, (v_(P), v_(a)) p(v_(-a), v_(P))
    3, (B-> (v_1(P), v_1(Q)), B, (* B-(v_1(Q)), v_2(P))
```



f) propozitie gresit formulata

	00	Q p=>Q (p		- , a M 7 2 1			(p= >Q) 1-Q1-p		
	10	10		0		0		0	V
	1 1	1		0	1	01		0	
		ing inval							
4	(e = a)	R S	> S)====================================	((p)	va) =	(PVD)=1R	(2==2)	16.	,0)=>
	000	0 0	1	1	0	1	=>((rva):	nR)	1
	000	0 1 0		1	0	1	1		1
	0 1	0 0		0	0	0	1		1
	0 1	1 0	1	0	1	1	1	1	
	10	0 0	00	1	1	6	0		1
	100	1 0	0	1	1	1	1		1
	1 1	0 0	11	9	1	0	0		0
	111	1,19	11	0	111	1	1		1
	prope	nitre imu	olde	ndiolia	11/2	= 6			
	0) 1	Q F	P= 2	n(P= 2 a) P	VR (PV	e) 1 (7 P=	·a)	E
	0	0 0	1	0		0	0		
	0	10	1	0	1		9		
	1	0010	0	1					
	1	19	1	0			1		0
	000	portie	imual	do	polint	idile			
	199		1 11000						

	6161	-, 70))		
PQ	PE-20 7 20 1 0 0 0 0 1 0 0 0 0 0 0 0 0 0 0 0 0	P=>7Q	6 1 0 0	
Prop invali	da paliofichila			