Considerați urmatocouli ipotest și verificați validitatea conclusiei (?): UI O porsoona ard ochii verzi daca mama sa are ochii verzi san tatal sau are ochii verzi. (2) Mama lui Andrei are ochii verzi. (3) Tatal lui Andrei nu ove ochii verzi. (4) 'Andre e tatal lui Matei. (?) Matel are ochi verzi. Constante: Notam: x are ochii verzi= V(x) Andrei = a x este mama lui y = M(x,y) mama bui Andrei = b tatal lui Andrei=c x este total big = T(x, y) Matei = d (1) V(x)^M(x,y) V V(x) ^T(x,y) → V(y) = U4 (2) V(b) M(b,a) = U2 - FNC (3) 7 V (c) 1 T(e,a) = Ug -INC (4) T(a,d) = U4 - FNC (?) V(d) = V Folosim rezolutia liniaria. U, Uz, ... Un +V => FNC(U, N Uz ^ ... A Un N 7 V) tes a · Advcem U1 la FNC

Pas 1: Inlocuim ,,→"

Pasa: Legile lui beMorgan

Pas 3: Distributivitatea lui V faței de 1

U = (7 V(x) v 7 T(x,y) v V(y)) 1 (7 V(x) v 7 T(x,y) v V(y))

· Negām concluzia: V = 7V(d) -FNC

· Aplicam rezolutio liniara - ratinare unit ( clauzele centrale au cel potin o clauza parinte unitara)

$$C_{1} = \tau V(x) \vee \tau M(x,y) \vee V(y) \qquad C_{3} = V(b)$$

$$C_{9} = \tau M(b,y) \vee V(y) \qquad C_{4} = M(b,\alpha)$$

$$V_{1} = V(a) \qquad C_{2} = \tau V(x) \vee \tau T(x,y) \vee V(y)$$

$$C_{10} = V(a) \qquad C_{2} = \tau V(x) \vee \tau T(x,y) \vee V(y)$$

$$C_{11} = \tau T(a,y) \vee V(y) \qquad C_{2} = T(a,d)$$

$$C_{12} = V(d) \qquad C_{3} = \tau V(d)$$

$$C_{13} = D \qquad \tau C_{4} = \tau C_{4}$$

$$C_{15} = D \qquad \tau C_{5} = \tau C_{5}$$

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=> Matei are ochii verzi.