Barten 1 A problemtro 11 J.m.Dom. ~ A N= (2x) P(x) v (3x) Q(x) -> (3x) (P(x) v Q(x)) $\mathcal{D}_2 = \langle \mathcal{D}_2, m_2 \rangle$ $m_2(P): \mathbb{R} \to \{T, F\}, m_2(P)(x) = "x > 0"$ $m_2(Q)$; $R > \{7, F3, m_2(Q)(X) = "\{X\}7, 2 = = 0"$ $= \sqrt{2} \left(\frac{\partial}{\partial x} \right) P(x) \sqrt{(\partial x)} Q(x) \right) \rightarrow \sqrt{2} \left(\frac{\partial}{\partial x} \left(P(x) \sqrt{Q(x)} \right) \right) =$ $= \mathcal{V}^{2}((\exists *) \mathcal{V}(*)) \vee \mathcal{V}^{2}(\exists *) \mathcal{Q}(*)) \rightarrow \mathcal{V}^{2}((\exists *) (\mathcal{V}(*)))_{=}$ ="] = X = R, x > 0" V" -] x e R, [x]/2==0"> 1)] x 8/12 a. R. x >0 non [x)/02 == 0°= = TY J -> T = T>> T=T=>) 20ste model (g: Wester Constitute)

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9.27. mb2 Adrech le o formo normala prenesa y la ofornio mormala cleurales [2x)(4y)((3z)P(z)1(3w)(Q(x, M)-)(Jz)Q(y,z)) (32)(47)((32)P(2)1(3m)(7Q(2,2)V(2))Q(7,21)) Pan 2 Legile lin De Morgan: Nu e carul Pas 3 Redeminina var abilelor agato a 1 x be distincte

(3x) (4y) (32) P(2) M (3m) (7Q(x,m) V (3w) Q(y,w))

Pass. Extragerea mandificatorilor in Jaka Janmules

(3x) (1) (1) (1) (1) (1) []x)(+))(32)(Jm)(J.w)(PO7)1(7Q(26,1)VQ(y,w))] O Forma runusca Pass. Skolumizare Eliminare and I per subolit var ligate I an fet de var legate invesal onderone (+y) (P(1(y))) 1 (7 Q(c, 2(y)) VQ(y,h(y))) we-h(3) Pars 6. Flyminam mont. universali P(f(1)) 1 (7Q((,g(y))) VQ(2,h(2))) <-Pas 7 Adurena la forma lavralos Un e caru

3, 2. 6, 2. Gradual trate formular or all browness, Barker of Charles

$$M \stackrel{\text{ret}}{=} (3*) ((3*) P(y) \rightarrow 7 (4*y) (Q(y) \rightarrow R(*)))$$
 $Grant : \neq > (B \rightarrow B \equiv 7A \times B)$
 $N = (3*) (7(3*y) P(y) \vee 7(4*y) (7Q(y) \vee R(*)))$
 $Grant : Delta formular in the partial of the promotion of the partial of the$

9.2 13/2 Utilizand motoda tabelelor semantice, dem. distributivitate "Y" fate de "N" F(4x) $P(x) \wedge (4x) Q(x) \longrightarrow (4x) (P(x) \wedge Q(x)) \xrightarrow{mot} U$ 1((+x)9(x)1(+x)Q(x)->(+x)(P(x)1Q(x)))(2) 7((+x)(P(x)1Q(x))->(+x)P(x)1(+x)Q(x)) (3) / × pt (3) (+x/9(x)11(+x)Q(x) (4)/ (4x)(P(x)/Q(b)) (9) V $7((\forall x) P(x) \wedge (\forall x) Q(x)) (10) \vee$ 2 pt (4) (4x)P(x) (6) V ant. (4x)Q(x)(12) $\left. \left. \left(\left(\# x \right) \mathcal{P}(x) \right) (n) \right\rangle \right.$ (+x) Q(x) (≠) √ of pt 5, a const 19(0) (19(b)) 7(P(a) / Q(a)) (8) V 18 (9) la canat existenta 8 (3) C comptex. 8 pt(6), a const existenta P(c) 19(c) (15) V P(b) / Q(b) (13) (P(a) (+x)(9(x)/(Q(x)) (g") (4x)(PK)/Q(x)) (3) (4x)P(x)(6)) Q(b) Q(b) 1 x pt 7/15) 9(c) Q(c) Q(a) (4x) Q(x) (4)) =) tabela sem. mohis a TCC Utantologie -) teorema

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