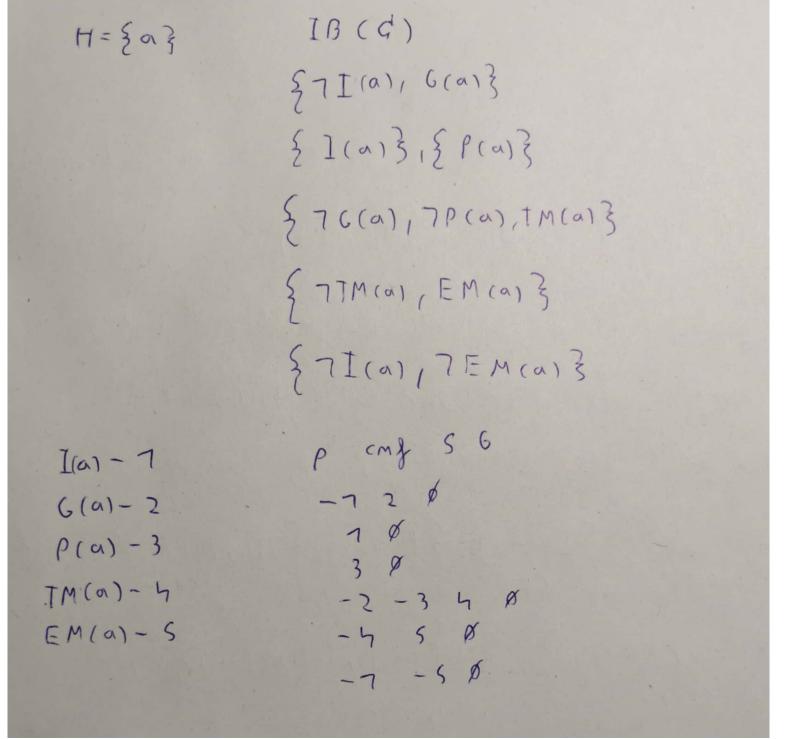
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(1) ∀x([(x) -> G(x)), ∃x([(x) ∧ P(x)), ∀x((G(x) ∧ P(x)) >> TM(x)), $\forall x (TM(x) \rightarrow EM(x)) \models \exists x (I(x) \land EM(x))$ Yxx (7 I(x) V G(x)) N (Iax) A P(ax) 1 4x2 (76(x2) V7P(x2) V TM (x2) N 4x3 (7TM(x3) V EM(x3)) Yx4 (7 I(x) V7 EM (x4)) 25 insotisfacilité {7](x1), G(x1)}, {](a1)}, {P(a1)}, {P(a1)}, {7G(x2), 7Ax2), †M(x2)}, {77M(x3), EM(x3)}, {71(x4), 7EM(x4)} \[
 \langle \text{Cq} \\
 \langle \te Ca (s (10 (6) \arks \ark És insatisfactible, per tout l'enuncial es correcte



(3) \(\tau \(\begin{aligned} \P(\times) & Vx (CH(x) -> IC(x)) = 3x (P(x) A 7 CH(x)) ier tokum o'i HX7 (P(x1) → D(x1)), (P(a) 1 F(a1)), Yx2 ((P(x2) 1 F(x2)) => 7[(x2)] 1×3 ((H(x3) -> I((x3)) 1 +x4 (7P(x4) V (H(x4)) es impolifications is {7P(x1), D(x1)}, {P(a1)}, {F(a1)}, {F(a1)}, 7F(x2), 7((1)) 57(H(x3), 1((x3)), {7P(xn), (H(xn))}. (8 (9 C19 C1) / 01/x3 / 1 / 7 P(01) } Es insolisfordiste, per Your l'enuncial és rarrecle

(3) Hy (A(x) -> (T(x,y) 1 V(y) 1 7P(y)), Fxy Vix) n I(x) n T(y,x) n I(y)), $\forall \times (I(x) \Rightarrow \neg P(x)) \models \exists \times (A(x) \land J(x))$ Es mesidad soi + X7, y1(A(x1) -> (7(x1, y1) 1) (y1) 17 P(y1))1 (V(an) 1 I (an) 1 T (az(an) 1 I (az)) 1 + xz (1(xz) > 7P(xz) 1 tx3 (7Ax31V 7](x)] f viexAT) ext + x7, y7 (A(x7) -> (T(x7, y7) 1 V(y7) 1 7 P(y7)) = Hx7.87 ((7A(x1) V T(x7,87).1 (7A(x1) V V(y 1)) 1(7A(x1) V 7P(y 1)) {7A(x1), T(x1,1)}, {7A(x1), V(y1)}, {7A(x1), V(y1)}, {7A(x1), 7P(y1)}, {V(y1)}, {I(an)}, { T(a2,01)}, { I(a1)}, { T(x2), TP(x2)}, { TA(x3), TI(x3)} (5 (8 (5 (9 (7 (8 (7 (9)

/ 67/2)

/ 67/2)

{7P(02)}

{7P(02)}

{7A(02)}

1B (d) H = { a} ETA (a), Trains, ETA(a), Viais 57 Acas, 7 Prass, & Vias , & I cas} €7 (00) 3, €7 I(0), 7 P(0)} &7 Acas, 7 Icans Vcar - 7 P CM } 5 8 A(a) - 3 Icai - 3 Prai - 4 Train - 5