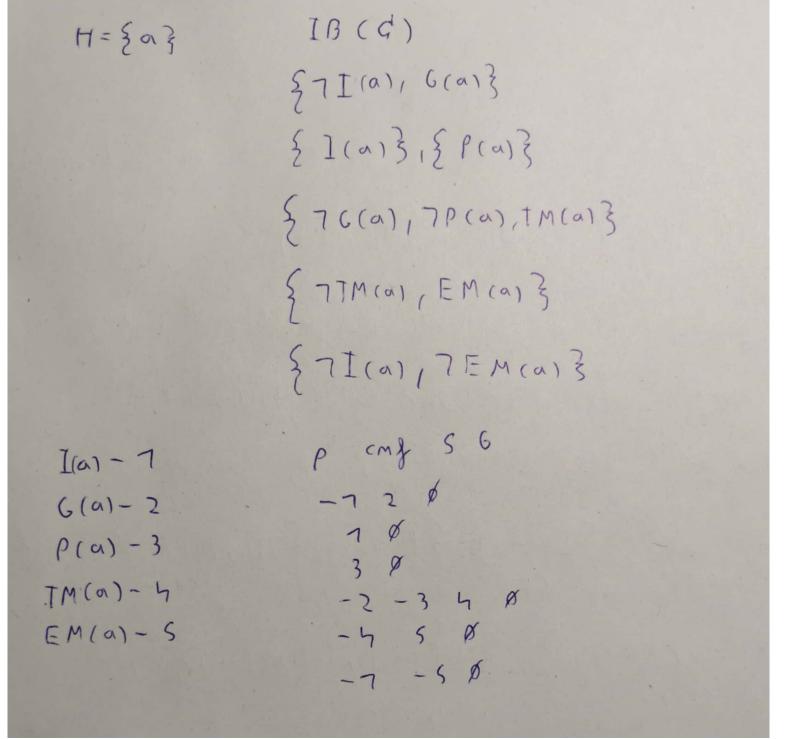
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(1) ∀x([(x) -> G(x)), ∃x([(x) ∧ P(x)), ∀x((G(x) ∧ P(x)) >> TM(x)), $\forall x (TM(x) \rightarrow EM(x)) \models \exists x (I(x) \land EM(x))$ Yxx (7 I(x) V G(x)) N (Iax) A P(ax) 1 4x2 (76(x2) V7P(x2) V TM (x2) N 4x3 (7TM(x3) V EM(x3)) Yx4 (7 I(x) V7 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) Hxy(A(x) -> (T(x,y) 1 V(y) 1 7P(x)), Jxy V(x) 1 T(x) 1 T(y,x) 1 Icy)), YX(I(x) >> TP(x)) = 3x(A(x) A](x)) Es mesidal soi +x1, y1(A(x1) -> (7(x1, 41) 1 V(y1) 17 P(y1)) 1 (V(an) 1 I (an) 1 T (an) 1 I (an) 1 H x2 (1(x2) > 7P(x2) Attibupaitouni de (18x) TVIEXAT) ext & 1 + x7,97 (A(x7) -> (T(x7,97) / V(M7) / 7P(M71) = + x7, 87 ((7 A(x1) V T(x7, 87) 1 (7 A(x1) V V(y 1)) 1 (7 A(x1) V 7 P(y 1)) {7A(x1),7(x1,1)}, {7A(x1), V(y1)}, {7A(x1), 7P(y1)}, {V(y1)}, {I(an)}, { T(a2,01)}, { I(a1)}, { 71(x2), 71(x2)}, { 7A(x3), 7I(x3)} (5 (9) \anjus (7 (8 (7 (9) (a2/x3 \ / a2/x2 {7P(a1)} {7A(a1)} § 78(02) } \$7A(az)} Er sodisfordiste, per tout l'enumiel nie et corrête

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