Redro H. Dautlier Ferran de Compres - a 2562510 Zurma: MD418-ADS 1)a(p+q) + (q+p)(2)~(pvq)+(~p1~q) p q (p + q) > (q + p) | ~P ~ q (pvq) ~ (pvq) + (~P ~ q) 00111111 0 1 0 1 0 0 1 0 1 100 1 1 0 11 1 1 0 (Implicação Lógica) 0 1 1 0 0 0 1 (signification à sall) 2) a) V_n , $\pi(x,y): 5|(2x+y)|A=\{1,3,4\}B=\{2,3,5\}$ 5/(2×1+2) + 5/14 (False) (1,2) x 5/(2×1+3)→5/5 (T) (1,3) ✓ $5|(2\times1+5)\rightarrow5|7 (F)(1,5)\times5|(2\times3+2)\rightarrow5|8 (F)(3,2)X$ (3,5) $5 \mid (2 \times 3 + 3) \rightarrow 5 \mid 9 \mid (F) \mid (3,3) \times$ 5/9+2 5 (2×3+5) -> 5 (11 (F) (3,5) X $\sqrt{n} = \{(4,3), (4,2)\}$ 5 / (2x4+2) -> 5/10 (V) (4,2) V 51 (2×4+3) - 5/11 (F) (4,3) × 51 (2×4+5) -> 5/13 (F) (4,5) X

3) a) ~
$$((\forall x \in A) (\rho(x)) \wedge (\exists x \in A) (q(x))]$$
:

 $(\forall x \in A) (\rho(x)) \vee (\forall x \in A) \sim (q(x))$

b) ~ $[(\exists x \in R) (\forall y \in R) (1x| = x) \rightarrow (2y - 5 \neq 7)]$

(ExeR) (EyeR) (1x| = x) $\wedge (2y - 5 = 7)$

4)

a) N° consultation: 500

b) $\Rightarrow A : 61$
 $\Rightarrow A : 61$

5)
$$U = \{0, 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15\}$$

 $A = \{2, 3, 5, 7, 11, 13\}$ BUC = $\{1, 2, 3, 4, 6, 8, 12, 13\}$
 $B = \{1, 2, 3, 4, 6, 8, 12\}$
 $C = \{3, 8, 13\}$
 $Au\theta = \{1, 2, 3, 4, 5, 6, 7, 8, 11, 12, 13\}$

 $A - (B \cup C) = \{5, 7, 11\}^c = \{0, 1, 2, 3, 4, 6, 8, 9, 10, 12, 13, 14, 15\}$ $(A \cup B)^c = \{9, 10, 14, 15\} \mid (A \cup B)^c \cup C = \{3, 8, 9, 10, 13, 14, 15\}$ $[A - (B \cup C)]^c [(A \cup B)^c \cup C] = \{0, 1, 2, 4, 6, 12\}$

6) ANB = (VxeU) (xCAN xCB) De (AUACEU) ANB = ANC

ANC = (VxeU) (XCANXCC) temos que B e C na interseção

A°NB = (VxeU)(XRANXCB) com A rão ignois em reus

A°NC = (VxeU)(XRANXCC) elementes, jó se A°NB = A°NC

também, temos (enterpres) então que B-ANB=

C-ANC, pois como A foi retirado do andise

A° é o resto do U, pois A°UA = U, C-AUC + AUB = B e C = B