STQQSSD		//_
LISTA DE EXERCÍCIOS 1 - SI MATHEUS BRITO FARTA	STEMAS NEBULOSO	)5
1_A=A(INVOLUÇÃO)	C	
$M_{A}(x) = \{1, x \in A, M_{\overline{A}}(x) = \{0, x \notin A\}$	11, x & A, Mā(X 20, x e A	()={1:,xEA (0,xdA
$\frac{1}{2060} M_A(X) = M_{\bar{A}}(X)$		The design
	100m = mov ( Ma	(M. M.) - M. //
MANB = MIN (MA, MB), MAU  ANA = Ø (CONTRADIÇÃO)	A A A	. A
$ \frac{\mathcal{M}_{A \Lambda \bar{A}} = M T N (\mathcal{M}_{A}, \mathcal{M}_{\bar{A}}) = \emptyset}{\frac{1}{2} \left( \frac{1}{2} + \frac{1}{2}$	1///	
AUB = A A B (DE MORGAN)  MAUB = MAX (MA, MB)  MAUB = MTN (MA, MB)	AUB SĀNĀ	SĀNĀ S
		7115

//	STQQSSD
L-A=A(Involução)	MITTELS PARTS FARTA
1-(1-A) = Acc = 0, 2	21/
AU(AAB)=A (ABSORÇÃ)	
S(A, T(A,B)) = A + AB - AB + 2	hi Cl
ANA = Ø (CONTRADIÇÃ)	(XIII = LICE) Dec
T(A, N(A))= A. (1(-A) = A-A+ + p	1 - Len 1 - L.
AUB = A A B (DE MORGAN)	(ak ak), in the
N(S(A,B)) = T(N(A), N(B))	
1-[A+B-AB] = (1-A) - (1-B)	III d'hamihali
1-A+B-AB = 1-B-A+AB	
	- Late to the ten sector

3.N(0)=1-0=1 + 5, N(1)=1-1=0 1+5.0 1+5.1

 $a \le b \rightarrow N(a) > N(b)$  1-0.3 = 0,4375 0.3 < 0,7 PARA 5=2 1+2.0.3

1-0,7 = 0,125

a = 0.57 N(a) = 1 - 0.57 = .43  $N(N(a)) = 1 - \frac{43}{385} = 0.57$ s = 5  $1 + 5 \cdot 0.57$  385  $1 + 5 \cdot \frac{43}{385}$ 

4-a=0,4 b=0,9

51: 5(0,0) = 0 + 0 - 0.0 = 0  $5(\alpha,0) = 0.4 + 0 - 0.4.0 = 0.4$ 5(0,a) = 0 + 0.4 - 0.0.4 = 0.4

52: 5(a,b) < 5(c,d) SE a < C E b < d a = 0,9, b = 0,5, c = 0,9, d = 0,7

 $5(a,b) = 0.9 + 0.5 - 0.9 \cdot 0.5 = 0.95$  or  $5(c,d) = 0.9 + 0.7 - 0.9 \cdot 0.7 = 0.97$ 

 $53:\alpha:0,1,b:0,25$  5(a,b):0,1:0,25:0,1:0,25:0,3255(b,a):0,25:0,1:0,25:0,1:0,325

STQQSSD \_\_\_/\_\_/ 54: a=0,2, b=0,3, c=0,4 5(a, 5(b,c)) = 5(5(a,b), c) 5(b,c)=0,3+0,4-0,300,4=0,58 S(a,b)=0,2+0,3-0,2.0,3=0,44 OK S(a, 0,58) = 0,2+0,58-0,2-0,58=0,664 S(0,44, C)=0,44+0,4-0,4900,4=0,664 5-51: S(0,0)=MIN(1,0)=0 S(a,0) = S(0,a) = MIN (1,a+0) = a sl: a=0,9, b=0,5, c=0,9, d=0,7 a=c, b \d S(a,b): MIN(1,0,9+0,5)=1 S(C,d): MIN(1,0,9+0)7)= 1 53: a=0,3 , b=0,2 S(a,b) = S(b,a)= MIN(1, 0,3+0,2) = 0,5 54: a = 0,1, b=0,2, c=0,3 S(b,c)= MIN(1,0.2+0,3) = 0.5 S(a,b): MIN(1,0.1+0,2)=0,3 S(a,0,5)= MJN(1,0,1+0,5) = 0,6 S(0,3,0,3)=MIN(1,0,3+0,3)=0,6

6-71:710,0)=0.0.0

 $T(a,1) = T(1,a) = a \cdot 1 = a$ 

TL: a=0,9, b=0,5, c=0,9, d=0,7 a < c = b < d

I(a,b)=0.9.0.5=0.45, T(c,d)=0.9.017=0,63 OK

73° a = 0.1, b = 0.3

 $T(a,b) = T(b,a) = 0.1 \cdot 0.3 = 0.3 \cdot 0.1 = 0.03$ 

T4: Q=0,1, b=0,2, C=0,3

T(b,c)=0.2.0.3=0.06, T(a,b)=0.1.0,2=0.02

T(a,0,06) = 0,5.0,06:0,006, T(0,02), c) = 0,02.0,3.0,06

7-T1: T(0,0)= MAX(0,0+0-1)=0

T(a,1)=T(1,a)=mx(0,a+1-1)=mx(0,1+a-1)=a

T2: a=0,9,5=0,5, c=0,9, d=0,7

T(a,b) = max (0,0,9+0,5-1) = 0,4 ac

I(c,d)= MAX(0,0,9+0,7-1)=0,6

T3: a=0.1 , b=0,3

T(ab)=T(b,c)= mx(0,0,1+0,3-1)= mx(0,0,3+0,1-1)=0

T4: a=0,5,5=0,6, C=0/7

T(b,c) = mx(0,0.6+0.7-1) = 0.3T(a,b) = mx(0,0.5+0.6-1) = 0.1

T(a, 0,3) = mx(0, 0.5+0.3-1) = 0 OK!

T(0,1,0,7= Max(0,0,1+0,7-1)=0

8- T(a,b) = a.b; S(a,b)=a+b-ab; N(a)=1-a

T(a,b) = N(S(N(a),N(b)))

 $T(a,b) = 1 - \left[1 - a + 1 - b - ((1-a) \cdot (1-b))\right]$ 

T(a,b)=1-[2-a-b-(1-b-a+ab)]

T(a,b)=1-[2-x-6-1+6+x-ab]

T(a,b)=1-1+ab

T(a,b) = ab