

Oiderete Strukturen

Ubung 2

von: Hakan Kani Endadul Mahi

Tutor: Daniel Yu

| 1. | Aussagen | w | logische | Terme |
|----|-----------|---|----------|-------|
| | <i>''</i> | | U | |

| (a) | \mathcal{S}^{\prime} | IK | K->7B | B->7K |
|-----|------------------------|------|----------------|-----------|
| | .1 | 0 | , 1 , , | 1 |
| | 0 | 1 | | |
| | 1/1 | 1 /1 | , O, , | 0 0 |
| | 1/1 | 0 | 1 | · / / · · |

13 = Gillig K = guter Kuchen

Die Aussager sagen dasselbe aus , autgrum Ty logischer Aquivalenz

| a | 6 | C | ta | tz | €3 | ty |
|-------|------|-------|----------|-----|----------------|--------------|
| | | 0 | 0 | 1 | , Q | 1 |
| | Ŏ | 1 | 0 | 0 | 0 | 1 |
| 0 | 1 | 0 0 | D | 1 | 0 | |
| | 0 | 00 | | 1 | | |
| 100 m | . 1. | . 1 . | . 1 | 1 | 1 /) 1 | . 1 . |
| 1 | 0 | 1 | 1 1 | 0 | | 1 1 |
| 1 1 | .1 | 0 O | 11 | 1 | 1. 1 1 | 11 |
| | 1 | 1 | 1 | / O | 11 | 11 |

ty: erfüllbar

E2 : estillbar

E3 : estillbar

E4 : Tautologie, estultur

b) to und to sind logisch aquivalent.

| (ρ1 Λ ρ2) V (ρ1 Λ ρ3) V (ρ1 Λ ρ4) V (P2 Λ P3) V |
|---|
| (P2 1 P4) V (P3 V P4) |
| |

b) $(\rho_1 \wedge \rho_2) \oplus (\rho_1 \wedge \rho_3) \oplus (\rho_1 \wedge \rho_4) \oplus (P_2 \wedge P_3) \oplus$ (P2 1 P4) (P3 1 P4) W/

for P1=P2=P3=P4=0 kount 1 raws \$ * US

C) (P1 1. 1 PK 17PK+2 1

(PZ 1... 1 PK 17PK+1 17PK+2 1 ...

(P3 1... 1 PK 1 7 PK+2 1 ... 1 7 Pn) (P)

Das kleppt dan låder jærete villet