

4 – Para cada uma das expressões abaixo, realize a tabela verdade e o diagrama de contato equivalente. Verifique no CAdE SIMU o diagrama de contato desenvolvido.

Obs.: Em anexo ao relatório deve ser apresentado o diagrama executado no CAdE SIMU.

a) $(A \vee B) \wedge C \wedge D$

b) $(A \wedge \sim B \wedge C) \vee \sim D \vee E$

c) $((\sim A \vee \sim B) \wedge C) \vee D \wedge E$

d) $(\sim A \wedge B \wedge \sim C) \vee (D \wedge \sim E \wedge F)$

Resposta:

Tabela Verdade (4-a)				
Entradas				Saída
a	b	c	d	o
1	1	1	1	1
1	1	1	0	0
1	1	0	1	0
1	1	0	0	0
1	0	1	1	1
1	0	1	0	0
1	0	0	1	0
1	0	0	0	0
0	1	1	1	1
0	1	1	0	0
0	1	0	1	0
0	1	0	0	0
0	0	1	1	0
0	0	1	0	0
0	0	0	1	0
0	0	0	0	0

Tabela Verdade (4-b)					
Entradas					Saída
a	b	c	d	e	o
1	1	1	1	1	1
1	1	1	1	0	0
1	1	1	0	1	1
1	1	1	0	0	1
1	1	0	1	1	1
1	1	0	1	0	0
1	1	0	0	1	1
1	1	0	0	0	1
1	0	1	1	1	1
1	0	1	1	0	1
1	0	1	0	1	1
1	0	1	0	0	1
1	0	0	1	1	1
1	0	0	1	0	0
1	0	0	0	1	1
1	0	0	0	0	1
0	1	1	1	1	1
0	1	1	1	0	0
0	1	1	0	1	1
0	1	1	0	0	1
0	1	0	1	1	1
0	1	0	1	0	0
0	1	0	0	1	1
0	1	0	0	0	1
0	0	1	1	1	1
0	0	1	1	0	0
0	0	1	0	1	1
0	0	1	0	0	1
0	0	0	1	1	1
0	0	0	1	0	0
0	0	0	0	1	1
0	0	0	0	0	1

Tabela Verdade (4-c)					
Entradas					Saída
a	b	c	d	e	o
1	1	1	1	1	1
1	1	1	1	0	0
1	1	1	0	1	0
1	1	1	0	0	0
1	1	0	1	1	1
1	1	0	1	0	0
1	1	0	0	1	0
1	1	0	0	0	0
1	0	1	1	1	1
1	0	1	1	0	0
1	0	1	0	1	1
1	0	1	0	0	0
1	0	0	1	1	1
1	0	0	1	0	0
1	0	0	0	1	0
1	0	0	0	0	0
0	1	1	1	1	1
0	1	1	1	0	0
0	1	1	0	1	1
0	1	1	0	0	0
0	1	0	1	1	1
0	1	0	1	0	0
0	1	0	0	1	0
0	1	0	0	0	0
0	0	1	1	1	1
0	0	1	1	0	0
0	0	1	0	1	1
0	0	1	0	0	0
0	0	0	1	1	1
0	0	0	1	0	0
0	0	0	0	1	0
0	0	0	0	0	0

Tabela Verdade (4-d)						
Entradas						Saída
a	b	c	d	e	f	o
1	1	1	1	1	1	0
1	1	1	1	1	0	0
1	1	1	1	0	1	1
1	1	1	1	0	0	0
1	1	1	0	1	1	0
1	1	1	0	1	0	0
1	1	1	0	0	1	0
1	1	1	0	0	0	0
1	1	0	1	1	1	0
1	1	0	1	1	0	0
1	1	0	1	0	1	1
1	1	0	1	0	0	0
1	1	0	0	1	1	0
1	1	0	0	1	0	0
1	1	0	0	0	1	0
1	1	0	0	0	0	0
1	0	1	1	1	1	0
1	0	1	1	1	0	0
1	0	1	1	0	1	1
1	0	1	1	0	0	0
1	0	1	0	1	1	0
1	0	1	0	1	0	0
1	0	1	0	0	1	0
1	0	1	0	0	0	0
1	0	0	1	1	1	0
1	0	0	1	1	0	0
1	0	0	1	0	1	1
1	0	0	1	0	0	0
1	0	0	0	1	1	0
1	0	0	0	1	0	0
1	0	0	0	0	1	0
1	0	0	0	0	0	0
0	1	1	1	1	1	0
0	1	1	1	1	0	0
0	1	1	1	0	1	1
0	1	1	1	0	0	0
0	1	1	0	1	1	0
0	1	1	0	1	0	0
0	1	1	0	0	1	0
0	1	1	0	0	0	0
0	1	0	1	1	1	1
0	1	0	1	1	0	1
0	1	0	1	0	1	1

0	1	0	1	0	0	1
0	1	0	0	1	1	1
0	1	0	0	1	0	1
0	1	0	0	0	1	1
0	1	0	0	0	0	1
0	0	1	1	1	1	0
0	0	1	1	1	0	0
0	0	1	1	0	1	1
0	0	1	1	0	0	0
0	0	1	0	1	1	0
0	0	1	0	1	0	0
0	0	1	0	0	1	0
0	0	1	0	0	0	0
0	0	0	1	1	1	0
0	0	0	1	1	0	0
0	0	0	1	0	1	1
0	0	0	1	0	0	0
0	0	0	0	1	1	0
0	0	0	0	1	0	0
0	0	0	0	0	1	0
0	0	0	0	0	0	0