

27/09/22

Nome: Daniel Gandolfi

Mapa de Karnaugh

a)

AB \ CD	00	01	11	10
00	1	0	1	1
01	0	1	1	1
11	0	1	0	1
10	1	1	1	1

$$a = \sim B \cdot \sim D + A \cdot \sim B + B \cdot \sim C \cdot D + C \cdot \sim D + \sim A \cdot C$$

b)

AB \ CD	00	01	11	10
00	1	0	0	0
01	1	1	0	1
11	1	0	0	0
10	1	0	1	1

$$b = \sim C \cdot \sim D + A \cdot \sim B \cdot C + \sim A \cdot B \cdot \sim C + \sim A \cdot B \cdot \sim D$$

c)

AB \ CD	00	01	11	10
00	1	0	0	1
01	0	0	0	1
11	0	0	0	1
10	1	0	0	1

$$c = C \cdot \sim D + \sim B \cdot \sim D$$

d)

AB \ CD	00	01	11	10
00	1	0	1	1
01	0	1	0	1
11	0	1	0	1
10	1	0	1	1

$$d) C \cdot \sim D + \sim B \cdot C + \sim B \cdot \sim D + B \cdot \sim C \cdot D$$

e)

AB \ CD	00	01	11	10
00	1	1	1	0
01	1	1	1	1
11	1	1	1	0
10	1	1	1	1

$$e = \sim C + D + \sim A \cdot B + A \cdot \sim B$$

f)

AB \ CD	00	01	11	10
00	1	1	1	1
01	1	0	1	0
11	1	1	1	1
10	1	1	0	0

$$f = \sim A \cdot \sim B + A \cdot B + \sim C \cdot \sim D + A \cdot \sim C + \sim A \cdot C \cdot D$$



g)

AB \ CD	00	01	11	10
00	0	0	1	1
01	1	1	0	1
11	1	1	0	1
10	1	0	1	1

$$g = C \cdot \sim D + B \cdot \sim C + A \cdot \sim D + \sim B \cdot C$$

Dim)

AB \ CD	00	01	11	10
00	0	0	0	0
01	0	0	0	0
11	1	1	1	1
10	1	1	1	1

Dim = A