

EXERCICE - CORRIGÉ

Les tableaux de Karnaugh

A

		ba			
		00	01	11	10
dc	00	1	1	1	1
	01	0	0	0	0
	11	0	0	0	0
	10	1	1	1	1

$$A = /c$$

B

		ba			
		00	01	11	10
dc	00	1	1	1	1
	01	1	0	0	1
	11	1	0	0	1
	10	1	1	1	1

$$B = /a + /c$$

C

		ba			
		00	01	11	10
dc	00	1	0	0	1
	01	0	0	0	0
	11	0	0	0	0
	10	1	0	0	1

$$C = /a \cdot /c$$

D

		ba			
		00	01	11	10
dc	00	0	0	0	0
	01	0	1	1	0
	11	0	1	1	0
	10	0	0	0	0

$$D = ac$$

E

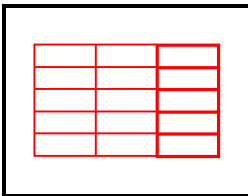
		ba			
		00	01	11	10
dc	00	1	1	1	1
	01	1	1	1	1
	11	1	1	1	1
	10	1	1	1	1

$$E = 1$$

F

		ba			
		00	01	11	10
dc	00	0	0	0	0
	01	0	0	0	0
	11	0	0	0	0
	10	0	0	0	0

$$F = 0$$



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G

		ba			
		00	01	11	10
dc	00	1	1	1	1
	01	0	0	0	0
	11	1	1	1	1
	10	1	1	1	1

$G = /c + d$

H

		ba			
		00	01	11	10
dc	00	1	1	1	0
	01	1	1	0	1
	11	1	1	0	1
	10	1	1	1	0

$H = /b + a./c + /a.c$

I

		ba			
		00	01	11	10
dc	00	1	1	1	1
	01	0	0	0	0
	11	0	0	1	1
	10	0	0	1	1

$I = /c + /d + bd$

J

		ba			
		00	01	11	10
dc	00	1	1	1	1
	01	1	1	0	1
	11	1	1	1	1
	10	1	1	1	1

$J = /a + /b + /c + d$

K

		ba			
		00	01	11	10
dc	00	1	1	0	0
	01	1	1	0	0
	11	0	0	1	1
	10	0	0	1	1

$K = /b./d + bd$

L

		ba			
		00	01	11	10
dc	00	0	1	1	0
	01	1	1	1	1
	11	1	1	1	1
	10	0	1	1	0

$L = a + c$