

جدول کارنو

D1

Diagram illustrating a 2x4 grid structure with inputs X, Y, and Z. The grid contains binary values (0 and 1). A red label 'D1' is positioned above the grid.

	X=0, Y=0	X=0, Y=1	X=1, Y=0	X=1, Y=1
Z=0	0	1	1	0
Z=1	0	1	1	0

D2

Diagram illustrating a 2x4 grid structure, likely representing a memory array or a data structure. The grid is labeled **D2** in red. The inputs are **X** and **Y**, and the output is **Z**.

1	0	1	0
0	1	0	1

D1 = y

$$D2 = x(y \oplus z) + x'(y \oplus z)'$$

جدول حالت

Current state			Next state		
x	y	z	x	y	output
0	0	0	0	1	0
0	0	1	0	0	1
0	1	0	1	0	1
0	1	1	1	1	0
1	0	0	0	0	1
1	0	1	0	1	0
1	1	0	1	1	0
1	1	1	1	0	1