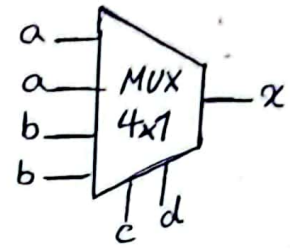


a	b	c	d	x	y	z	w
0	0	0	0	0	0	0	0
0	0	0	1	0	0	0	1
0	0	1	0	0	0	1	0
0	0	1	1	0	1	0	0
0	1	0	0	0	1	0	1
0	1	0	1	0	1	1	0
0	1	1	0	1	0	0	0
0	1	1	1	1	0	0	1
1	0	0	0	1	0	1	0
1	0	0	1	1	1	0	0

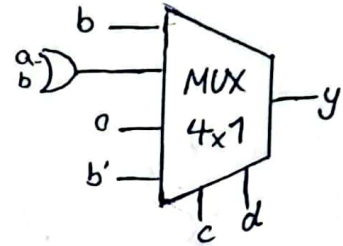
$$x = \sum(6, 7, 8, 9) + d(10, 11, 12, 13, 14, 15)$$

	I ₀	I ₁	I ₂	I ₃
a'b'	0	1	2	3
a'b	4	5	6	7
ab	12	13	14	15
ab'	8	9	10	11
	a	a	b	b



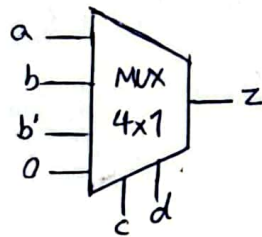
$$y = \sum(3, 4, 5, 9) + d(10, 11, 12, 13, 14, 15)$$

	I ₀	I ₁	I ₂	I ₃
a'b'	0	1	2	3
a'b	4	5	6	7
ab	12	13	14	15
ab'	8	9	10	11
	b	ab	0	b'



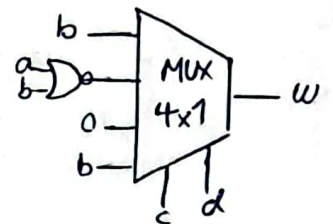
$$z = \sum(2, 5, 8) + d(10, 11, 12, 13, 14, 15)$$

	I ₀	I ₁	I ₂	I ₃
a'b'	0	1	2	3
a'b	4	5	6	7
ab	12	13	14	15
ab'	8	9	10	11
	a	b	b'	0



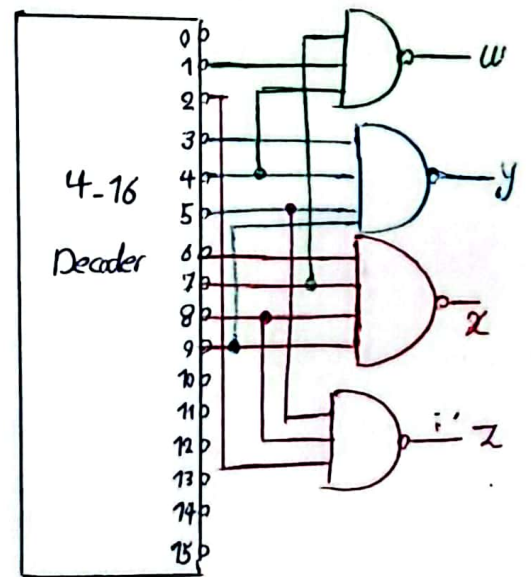
$$w = \sum(1, 4, 7) + d(10, 11, 12, 13, 14, 15)$$

	I ₀	I ₁	I ₂	I ₃
a'b'	0	1	2	3
a'b	4	5	6	7
ab	12	13	14	15
ab'	8	9	10	11
	b	a'b'	0	b



a	b	c	d	y ₂	y ₁
0	0	0	0	1	1
0	0	0	1	1	0
0	0	1	0	1	1
0	0	1	1	0	0
0	1	0	0	1	0
0	1	0	1	0	1
0	1	1	0	1	0
0	1	1	1	0	1
1	0	0	0	1	0
1	0	0	1	0	1
1	0	1	0	1	0
1	0	1	1	0	1
1	1	0	0	1	0
1	1	0	1	0	1
1	1	1	0	1	0
1	1	1	1	0	1

ROM: 2⁴ × 2



ab \ cd	00	01	11	10
00	1		x	1
01	1			1
11	x	1	1	x
10	x			x

F = d' + ab

ab \ cd	00	01	11	10
00		1	x	
01		1	1	
11	x			x
10	x	1	1	x

F' = ad + b'd

ab \ cd	00	01	11	10
00		1	1	
01	x			x
11		1	1	
10		1	1	

G = ad + b'd

ab \ cd	00	01	11	10
00	1			1
01	x	1	1	x
11	1			1
10	1			1

G' = d' + a'b

a b c d	F	G
- - - 0	1	1
1 1 - -	1	-
0 1 - -	-	1
	<u>T</u>	<u>C</u>

امتیاز:

D = (x ⊕ y ⊕ 1) = x ⊙ y

B = x'.1 + x'y + 1y = x' + y

S = xy + xy'

C = xy

or = xy + x'y + zy'' = x + y

F(x,y,z,w) = w'z'D + w'zB + wz'(x+y) + wzc = xyz'w' + x'y'z'w' + x'zw' + yzw' + xwz' + yz'w + xyzw = xyz'w' + x'y'z'w' + x'yzw' + x'y'zw' + xyzw' + x'yzw' + xyz'w + xy'z'w + xyz'w + x'y'z'w + xyzw =

Σ(0,2,5,6,9,12,13,14,15)