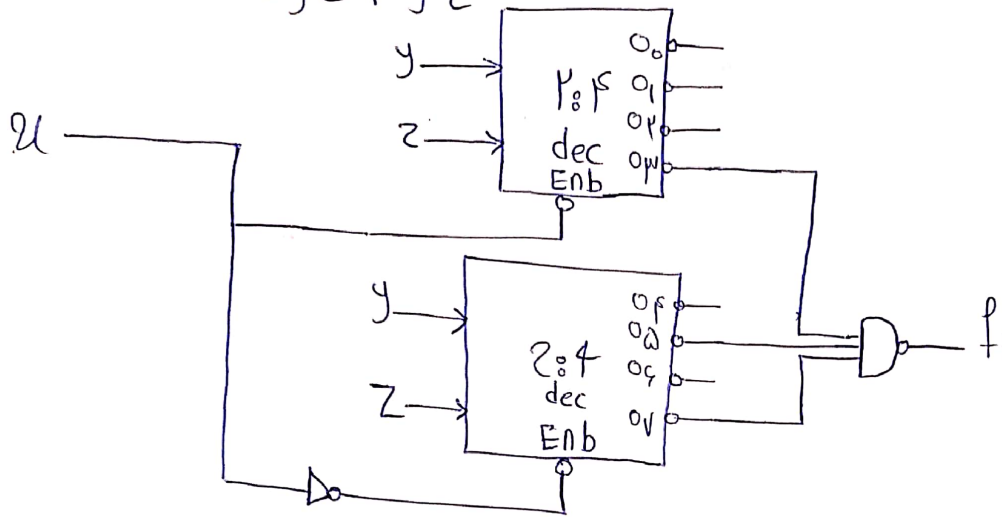
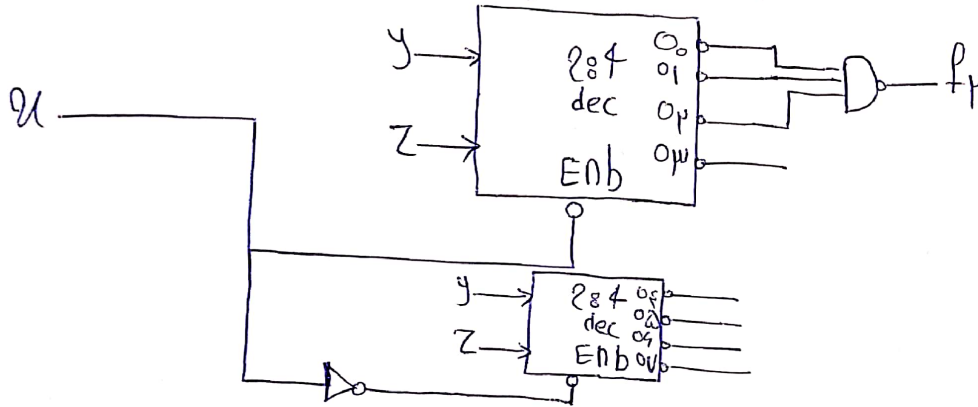


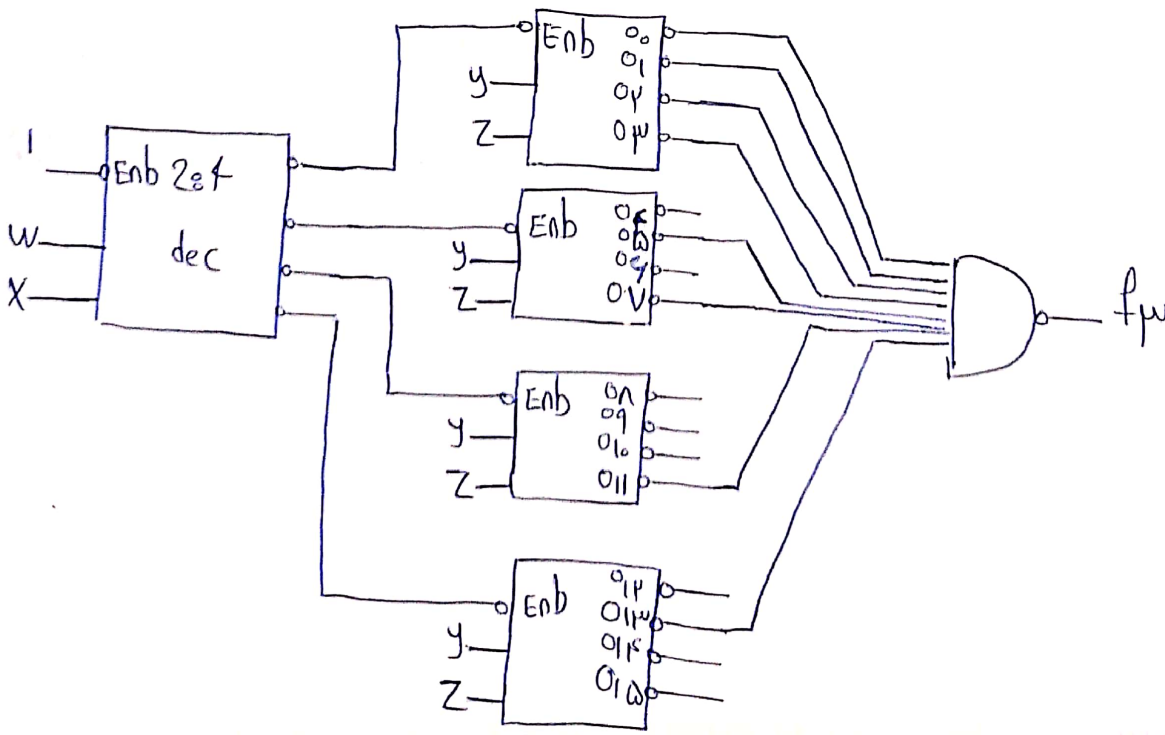
$$f_1(x, y, z) = xy'z + yz$$



$$f_2(x, y, z) = \Pi M(1, 3, 5, 7) = \Sigma m(0, 2, 4, 6)$$

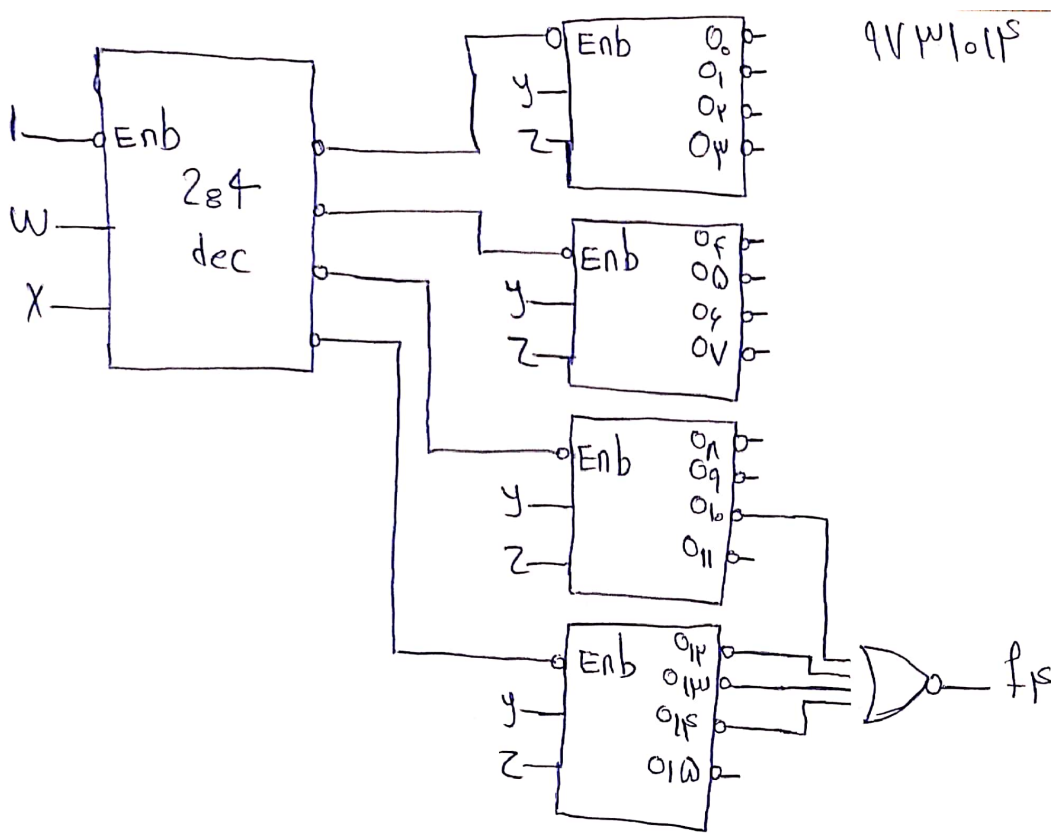


$$f_3(w, x, y, z) = \Sigma m(0, 1, 3, 5, 7, 11, 13)$$

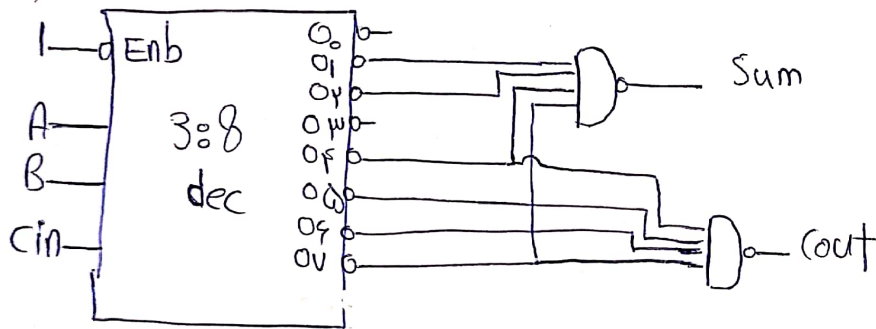


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مستوفى



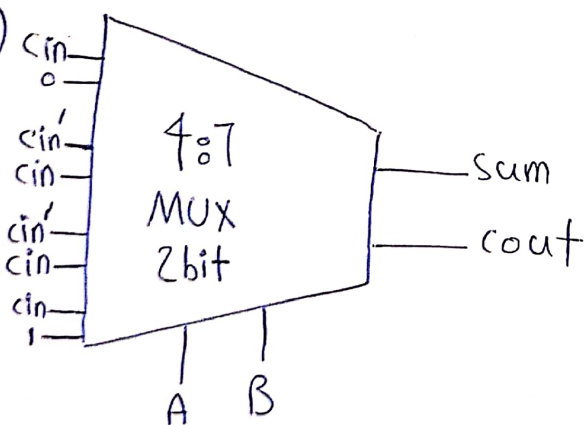
الـ 11)



$$\text{Sum} = A'B'cin' + A'B'cin + A'BCin' + A'BCin$$

$$\text{Cout} = ABCin + ABCin' + AB'cin + AB'cin'$$

12)

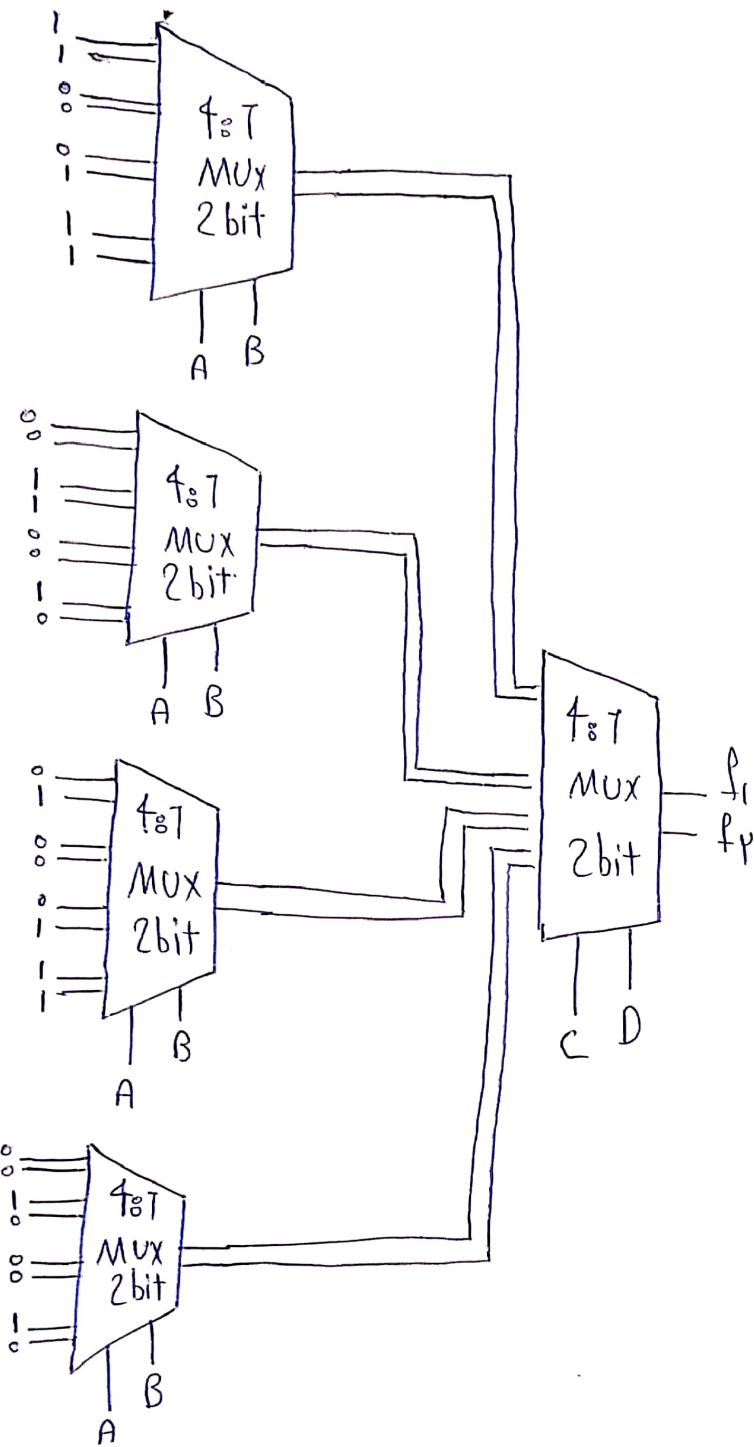


(12)

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

$$f = \Sigma (1, 3, 5, 7, 10, 11, 13, 15)$$

$$\text{SOP} = CD + A'B'C + AB'C + BC'D'$$



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

f_1

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

f_2

