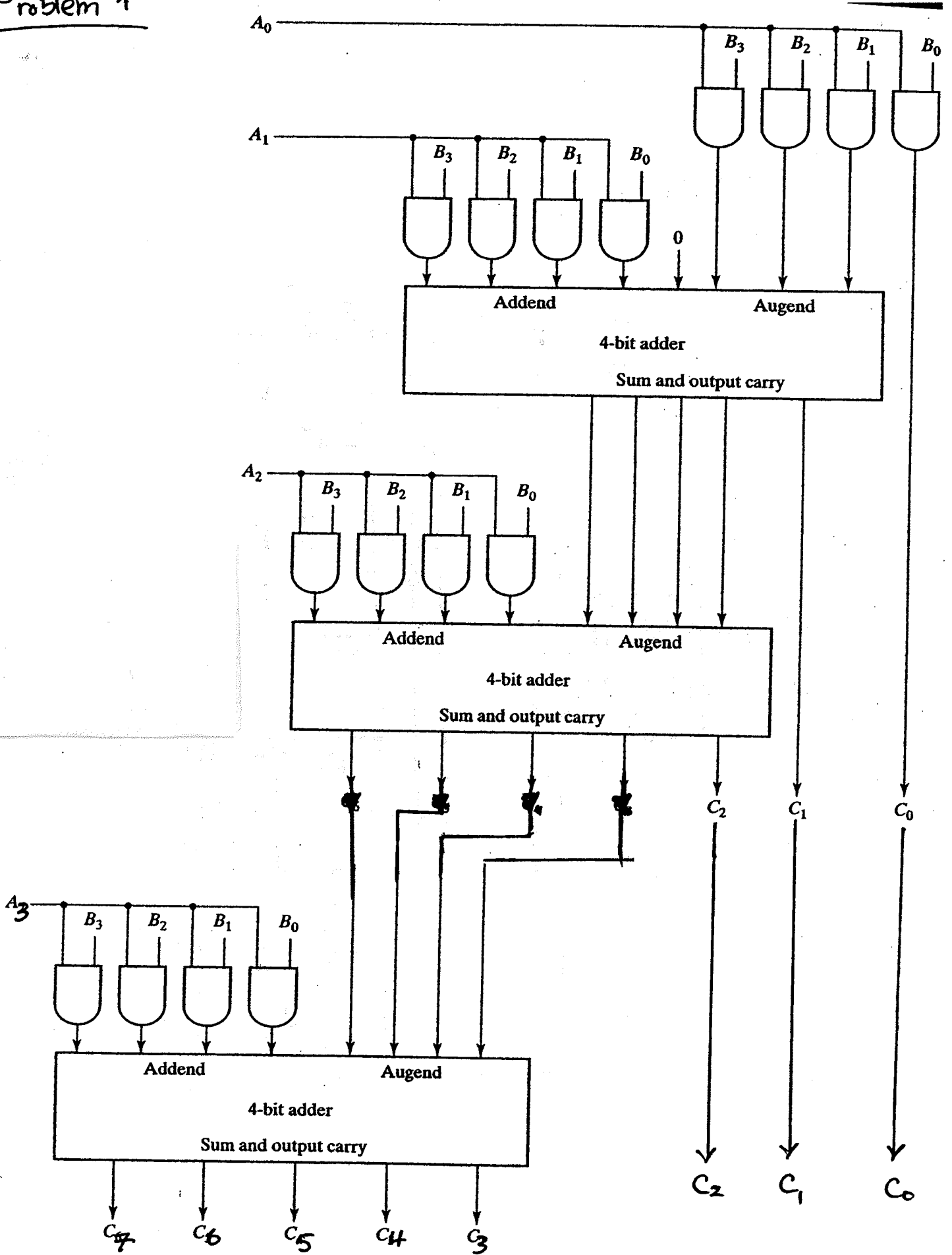
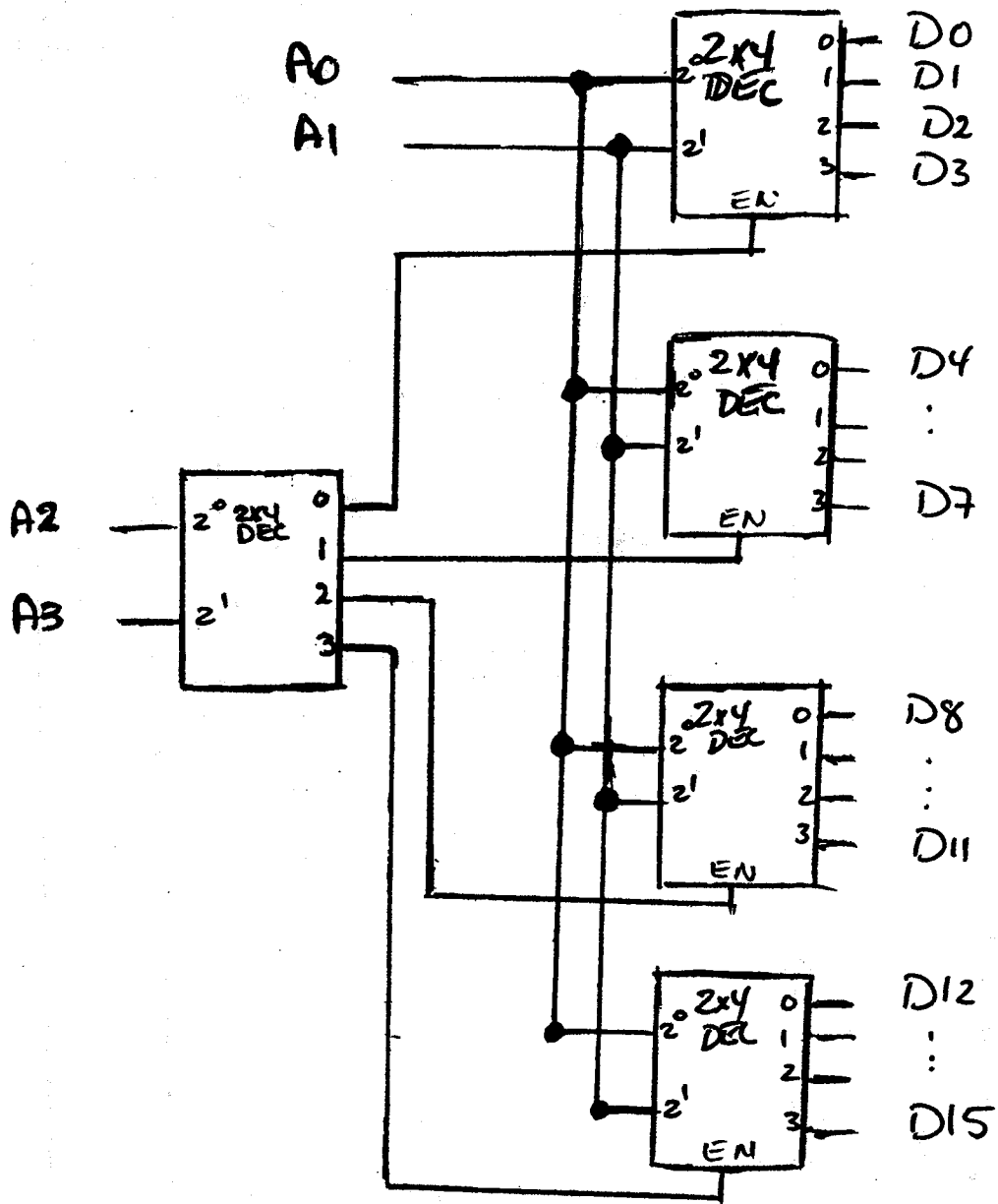


Problem 1



Problem 2

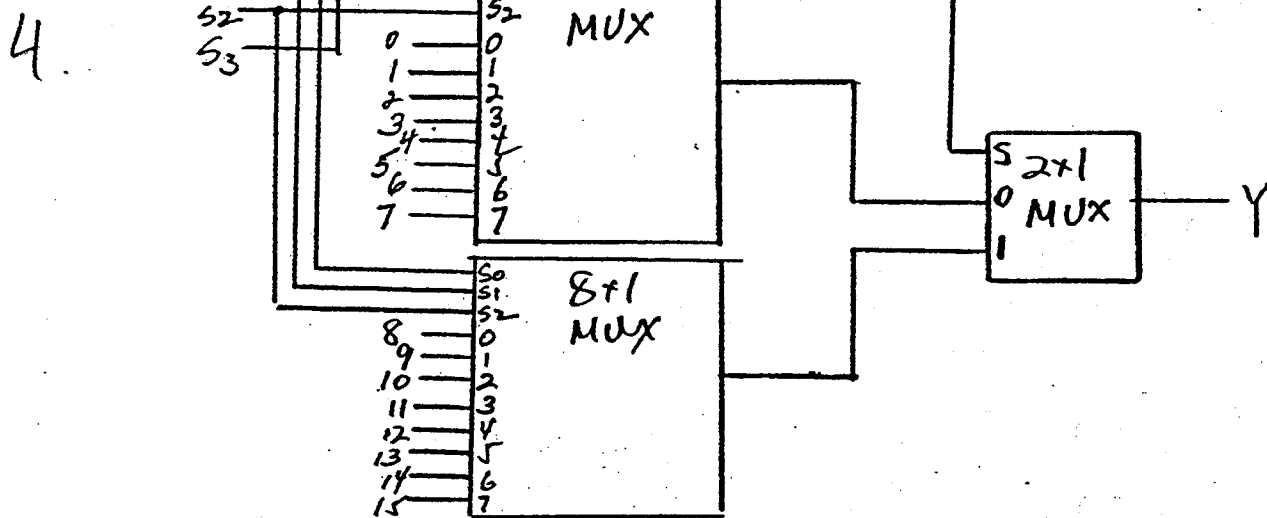
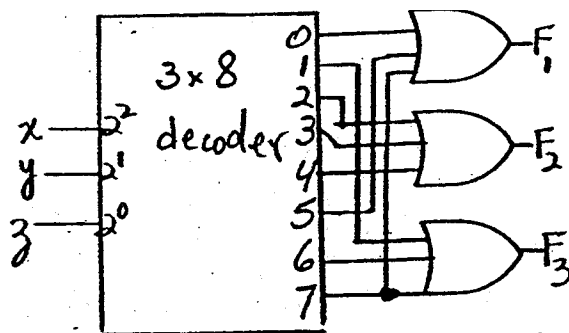


3

$$F_1 = x(y+y')z + x'y'z' = \Sigma(0, 5, 7)$$

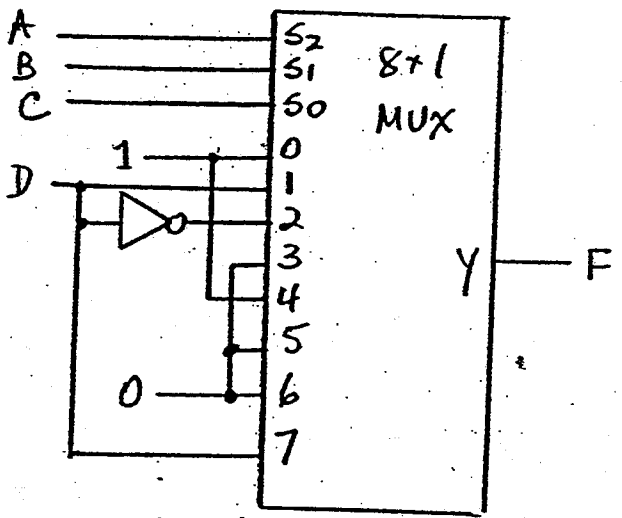
$$F_2 = xy'z' + x'y(z+z') = \Sigma(2, 3, 4)$$

$$F_3 = x'y'z + xy(z+z') = \Sigma(1, 6, 7)$$

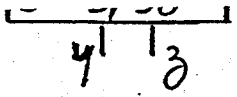


5

A	B	C	D	F
0	0	0	0	1
0	0	0	1	1
0	0	1	0	0
0	0	1	1	1
0	1	0	0	1
0	1	0	1	0
0	1	1	0	0
0	1	1	1	0
1	0	0	0	1
1	0	0	1	1
1	0	1	0	0
1	0	1	1	0
1	1	0	0	0
1	1	0	1	0
1	1	1	0	0
1	1	1	1	1



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6

	A	B	C	D	F
$I_3=1$	0	1	1	0	1
	0	1	1	1	1
$I_5=1$	1	0	1	0	1
	1	0	1	1	1
$I_0=D$	0	0	0	0	0
	0	0	0	1	1
$I_4=D$	1	0	0	0	0
	1	0	0	1	1

A	B	C	D	F
1	1	0	0	1
1	1	0	1	0

Other six minterms = 0 since $I_1=I_2=I_7=0$

$$F(A,B,C,D) = \sum (1, 6, 7, 9, 10, 11, 12)$$