

سوال 1 -

(الف)

D \ AB	00	01	10	11	00	01	10	11
0	0	2	4	6	8	10	12	14
1	1	3	5	7	9	11	13	15
	$\bar{D}$	0	0	1	D	D	$\bar{D}$	1

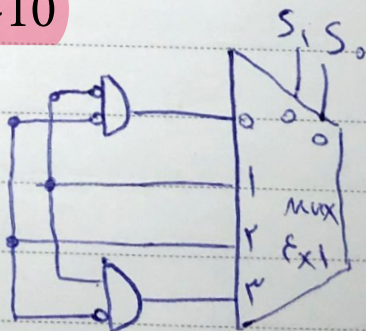
+5

$$f(a, b, c, d) = \sum m(0, 2, 4, 6, 8, 10, 12, 14)$$

(ب)

cd \ ab	00	01	10	11
00	0	4	8	12
01	1	5	9	13
10	2	6	10	14
11	3	7	11	15

-10



$$\bar{c}d + cd = c + d$$