

(b)

(1921079642)

AB \ CD	00	01	11	10
00	0 1	1	3 1	2 1
01	4 1	5 0	7 1	6 0
11	12 X	13 X	15 X	14 X
10	8 1	9 1	11 X	10 X

$$F = \bar{C}\bar{D} + CD + \bar{B}$$

AB \ CD

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

$$F = \bar{C} + D + B + A.$$