

$$1) f_1(A, B, C) = \sum (0, 1, 3, 5, 6, 7)$$

A	B	C	f_1
0	0	0	1
0	0	1	1
0	1	0	0
0	1	1	1
1	0	0	0
1	0	1	1
1	1	0	1
1	1	1	1

$$f_1 = \bar{A}\bar{B}\bar{C} + \bar{A}\bar{B}C + \bar{A}B\bar{C} + A\bar{B}\bar{C} + ABC + \bar{A}BC$$

$$2) f_2(A, B, C) = \bar{A}\bar{C} + A\bar{B} + AC$$

$$= \bar{A}\bar{C}(B + \bar{B}) + A\bar{B}(C + \bar{C}) + AC(B + \bar{B})$$

$$= \bar{A}B\bar{C} + \bar{A}\bar{B}\bar{C} + A\bar{B}C + A\bar{B}\bar{C} + ABC + A\bar{B}C$$

A	B	C	f_2
0	0	0	1
0	0	1	0
0	1	0	1
0	1	1	0
1	0	0	1
1	0	1	1
1	1	0	0
1	1	1	1