$$F = (a,b,c,d) = \sum m(2,3,5,7,8,10,11,12,13) + d(4)$$

PI ها

$$a\bar{c}$$
$$\bar{a}\,\bar{b}\,\bar{d}$$
$$b\bar{c}\,d$$
$$\bar{a}\,c\,d$$
$$\bar{a}\,\bar{b}\,c$$
$$\bar{b}\,c\,\bar{d}$$
$$c\,\bar{d}\,a$$
$$\bar{a}\,b\,d$$
$$a\,b\,\bar{d}$$

EPI ها

$$a\bar{c}$$

4.5

-2

-1

+2

SOP → $a\bar{c} + \bar{a}\,b\,d + \bar{a}\,\bar{b}\,c + \bar{a}\,c\,d$

-2.5 for missed two PI and wrong surplus Pis

مسمت ج

$$F(a,b,c,d) = \sum m(\text{۲},\text{۳},\text{۵},\text{۷},\text{۸},\text{۱۰},\text{۱۱},\text{۱۲},\text{۱۳}) + d(\text{۴}$$

```
0010 ✓        001- *          0-1- *
1000 ✓        0-10 ✓          -01- *
_____        -010 ✓
0011 ✓        10-0 *
0101 ✓        1-00 *
0110 ✓        _____
1010 ✓        -011 ✓
1100 ✓        0-11 ✓
_____        110- *
1011 ✓
1101 ✓
0111 ✓
```

+4

-4 for incomplete 2nd and 3rd column

-7 for missed PIs

	۲	۳	۵	۷	۸	۱۰	۱۱	۱۲	۱۳	۴
(۲,۳) 001-	✓	✓								
(۸,۱۰) 10-0					✓	✓				
(۸,۱۲) 1-00					✓			✓		
(۱۲,۱۳) 110-							✓	✓		← ✗
(۲,۳,۶,۷) 0-1-	✓	✓		✓					✓	✗←
(۹,۳,۱۰,۱۱) -01-	✓	✓				✓	✓			
	✓	✓		✓						

-6