$F(A, B, C) = \Sigma m(1, 2, 5, 6, 7)$

NEW FUNCTION

2. Finding Prime Implicants			
Group	Decimal	Binary	
0	1	001√	
0	2	010 √	
1	5	101 √	
1	6	110 √	
2	7	111 √	

	3. Finding Prime Implicants	
Group	Decimal	Binary
0	1, 5	-01 **
0	2, 6	-10 ₩
1	5, 7	1-1 *
1	6, 7	11- *

The Prime Implicants Are

B'C, BC', AC, AB

5. Prime Implicants Chart						
Minterms	1	2	5	6	7	Cost
B'C	X		X			4
BC'		X		X		4
AC			X		X	3
АВ				X	X	3

6. Finding Unique Minterms						
Minterms	1	2	5	6	7	Cost
B'C	Х		×			4
BC'		Х		х		4
AC			X		X	3
АВ				х	x	3

7. Prime Implicants Chart				
Minterms	7	Cost		
AC	x	3		
АВ	x	3		

The Essential Implicants Are B'C, BC'

9. Applying Petrick Method

Let
$$p1 = AC$$

Let $p2 = AB$
 $(p1 + p2)$

Possible Function Minimizations

$$F = B'C + BC' + AC$$

$$F = B'C + BC' + AB$$