

So, let's solve it analytically. Let's see how to find a sop or a Pos. Term by term cimplification:

$$(AB + (S_0' + A')')' = (AB)' \cdot (S_0' + A')'' = (A' + B')(S_0' + A')$$

So, it becomes a product of tume: $(S_1 S_0' A' B')' = (S_1' + S_0 + A + B)$

$$\frac{P_{0}S}{P = (A' + B') \cdot (S_{0}' + A') \cdot (S_{1} + S_{0}' + B') \cdot (S_{1}' + S_{0} + A + B)}$$

Let's add the mining variables now, in order to oblain the product of masterner

$$(A'+B') = (S_0 + A'+B')(S_0' + A'+B')$$

$$(S_1+S_0+A'+B')(S_1'+S_0+A'+B') (S_1+S_0'+A'+B') (S_1'+S_0'+A'+B')$$

$$M_{0011} M_{1011} M_{0111} M_{1111}$$

$$3 M 7$$

$$(S_0' + A') = (S_1 + S_0' + A') \cdot (S_1' + S_0' + A')$$

$$(S_1' + S_0' + A' + B) \cdot (S_1 + S_0' + A' + B')$$

$$(S_1' + S_0' + A' + B) \cdot (S_1' + S_0' + A' + B')$$

$$(S_1' + S_0' + A' + B) \cdot (S_1' + S_0' + A' + B')$$

$$(s_1 + s_0' + B') = (s_1 + s_0' + A + B') \cdot (s_1 + s_0' + A' \rightarrow B')$$

So, finally P= f(S,So,A,B) = M3.M5.M6.M7.M11.M14.M15.M8 P= MM(3,5,6,7,8,11,14,11)

$$And: \Rightarrow P = \sum_{4} m(0,1,2,4,9,10,12,13)$$

$$m_{\perp} = m_{0001} = S_{1}'.S_{0}'.A.B$$
 $m_{q} = m_{1001} = S_{1}.S_{0}'.A.B$
 $M_{\perp} = m_{1001} = S_{1}.S_{0}'.A.B$