x_0	x_1	x_2	x_3	x_4	x_5	x_6	x_7	y_2	y_1	y_0
1	–	–	–	–	–	–	–	0	0	0
0	1	–	–	–	–	–	–	0	0	1
0	0	1	–	–	–	–	–	0	1	0
0	0	0	1	–	–	–	–	0	1	1
0	0	0	0	1	–	–	–	1	0	0
0	0	0	0	0	1	–	–	1	0	1
0	0	0	0	0	0	1	–	1	1	0
0	0	0	0	0	0	0	1	1	1	1

→ all zeros : dont care

$$y_2 = \bar{x}_0 \cdot \bar{x}_1 \cdot \bar{x}_2 \cdot \bar{x}_3 \left(x_4 + \bar{x}_4 x_5 + \bar{x}_4 \bar{x}_5 x_6 + \bar{x}_4 \bar{x}_5 \bar{x}_6 \bar{x}_7 \right) + \bar{x}_0 \bar{x}_1 \bar{x}_2 \bar{x}_3 \bar{x}_4 \bar{x}_5 \bar{x}_6 \bar{x}_7 \quad (d)$$

$$\Rightarrow y_2 = \bar{x}_0 \bar{x}_1 \bar{x}_2 \bar{x}_3 \cdot \left(x_4 + \bar{x}_4 \cdot x_5 + \bar{x}_4 \bar{x}_5 x_6 + \bar{x}_4 \bar{x}_5 \bar{x}_6 \right)$$

$$\Rightarrow y_2 = \bar{x}_0 \bar{x}_1 \bar{x}_2 \bar{x}_3 \left(x_4 + x_5 + \bar{x}_5 x_6 + \bar{x}_4 \bar{x}_5 \right)$$

$$y_2 = \bar{x}_0 \bar{x}_1 \bar{x}_2 \bar{x}_3 \left(x_4 + \bar{x}_4 x_5 + \bar{x}_4 \bar{x}_5 \right)$$

$$y_2 = \bar{x}_0 \bar{x}_1 \bar{x}_2 \bar{x}_3 \left(1 \right)$$

$$\underline{y_2 = \bar{x}_0 \bar{x}_1 \bar{x}_2 \bar{x}_3}$$

$$y_1 = \bar{x}_0 \bar{x}_1 \left(x_2 + \bar{x}_2 x_3 + \bar{x}_2 \bar{x}_3 \bar{x}_4 \bar{x}_5 \left(x_6 + \bar{x}_6 x_7 \right) + \bar{x}_0 \bar{x}_1 \bar{x}_2 \bar{x}_3 \bar{x}_4 \bar{x}_5 \bar{x}_6 \bar{x}_7 \right) \rightarrow (d)$$

($x_6 + \bar{x}_6 x_7 = 1$)

$$\Rightarrow y_1 = \bar{x}_0 \bar{x}_1 \left(x_2 + \bar{x}_2 x_3 + \bar{x}_2 \bar{x}_3 \bar{x}_4 \bar{x}_5 \right)$$

$$\Rightarrow y_1 = \bar{x}_0 \bar{x}_1 \left(x_2 + x_3 + \bar{x}_3 \bar{x}_4 \bar{x}_5 \right)$$

$$\Rightarrow \underline{y_1 = \bar{x}_0 \bar{x}_1 \left(x_2 + x_3 + \bar{x}_4 \bar{x}_5 \right)}$$

$$y_0 = \bar{x}_0 \left(x_1 + \bar{x}_1 \bar{x}_2 x_3 + \bar{x}_1 \bar{x}_2 \bar{x}_3 \bar{x}_4 x_5 + \bar{x}_1 \bar{x}_2 \bar{x}_3 \bar{x}_4 \bar{x}_5 \bar{x}_6 x_7 \right) + (d)$$

$$\Rightarrow y_0 = \bar{x}_0 \left(x_1 + \bar{x}_1 \bar{x}_2 x_3 + \bar{x}_1 \bar{x}_2 \bar{x}_3 \bar{x}_4 x_5 + \bar{x}_1 \bar{x}_2 \bar{x}_3 \bar{x}_4 \bar{x}_5 \bar{x}_6 \right)$$

$$\Rightarrow y_0 = \bar{x}_0 \left(x_1 + x_2 x_3 + \bar{x}_2 \bar{x}_3 \bar{x}_4 x_5 + \bar{x}_2 \bar{x}_3 \bar{x}_4 \bar{x}_5 \bar{x}_6 \right)$$

$$\Rightarrow y_0 = \bar{x}_0 \left(x_1 + \bar{x}_2 x_3 + \bar{x}_2 \bar{x}_4 x_5 + \bar{x}_2 \bar{x}_4 \bar{x}_5 x_6 \right)$$

$$\underline{y_0 = \bar{x}_0 \left(x_1 + \bar{x}_2 x_3 + \bar{x}_2 \bar{x}_4 x_5 + \bar{x}_2 \bar{x}_4 x_6 \right)}$$

$$y_0 = \bar{x}_0 x_1 + \bar{x}_0 \bar{x}_2 x_3 + \bar{x}_0 \bar{x}_2 \bar{x}_4 x_5 + \bar{x}_0 \bar{x}_2 \bar{x}_4 \bar{x}_6$$

$$y_1 = \bar{x}_0 \bar{x}_1 (x_2 + x_3 + \bar{x}_4 \bar{x}_5)$$

$$y_2 = \bar{x}_0 \bar{x}_1 \bar{x}_2 \bar{x}_3$$

$\bar{x}_0 \bar{x}_1 \rightarrow t_{01}$

$\bar{x}_2 \bar{x}_3 \rightarrow t_{23}$

$\Big\} \rightarrow t_{01} \cdot t_{23} = y_2$

$\bar{x}_4 \bar{x}_5 \rightarrow t_{45}$

$x_2 + x_3 \rightarrow m_{23}$

$\Big\} \rightarrow t_{45} + m_{23} = w_1 \;,\; t_{01} \cdot w_1 = y_1$

$\bar{x}_0 x_1 \rightarrow f_1$

$\bar{x}_0 \bar{x}_2 \rightarrow k_1 \;,\; k_1 \cdot x_3 = f_2$

$k_1 \cdot \bar{x}_4 \rightarrow k_2$

$k_2 \cdot x_5 \rightarrow f_3$

$k_2 \cdot \bar{x}_0 \rightarrow f_4$

$f_1 + f_2 = a$

$f_3 + f_4 = b$

$\Big\} \rightarrow a + b = y_0$