

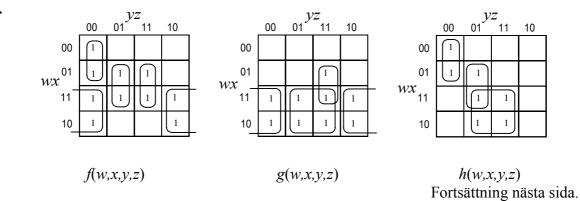
Primimplikatorer: $x_1'x_4$, $x_1'x_3x_5$, $x_2'x_4x_7$, $x_2x_4x_6$, $x_4x_6x_7$

Primimplikatortabell enligt Reusch:

	$x_1' x_4$	$x_{1}^{'}x_{3}x_{4}^{'}x_{5}$	$x_1 x_2 x_4 x_6$	$x_1 x_2 x_4 x_7$
$x_1 x_4$	1	0	0	0
$x_1 x_3 x_5$	x_3x_5	1	0	0
$x_{2}^{'}x_{4}x_{7}$	$x_2 x_7$	0	0	1
$x_2 x_4 x_6$	x_2x_6	0	1	0
$x_4x_6x_7$	x_6x_7	0	x_7	x_6

Minimal disjunktiv form: $f(x_1, x_2, x_3, x_4, x_5, x_6, x_7) = x_1 x_4 + x_1 x_3 x_5 + x_2 x_4 x_7 + x_2 x_4 x_6$

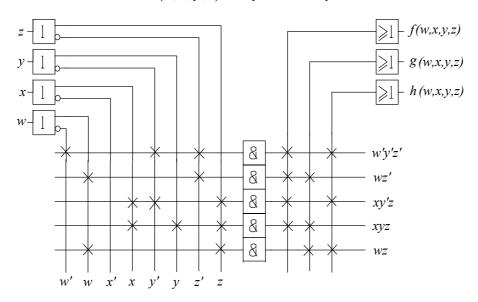
2.



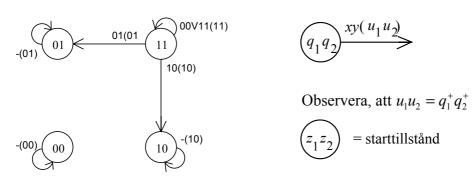
Fortsättning exempel 2.
$$f(w,x,y,z) = w' \ y' \ z' + wz' + xy' \ z + xyz$$

$$g(w,x,y,z) = wz' + wz + xyz$$

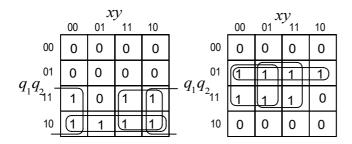
$$h(w,x,y,z) = w' \ y' \ z' + wz + xy' \ z$$



3.



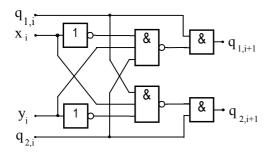
$\delta(\lambda)$	00	01	11	10
00	00(00)	00(00)	00(00)	00(00)
01	01(01)	01(01)	01(01)	01(01)
11	11(11)	01(01)	11(11)	10(10)
10	10(10)	10(10)	10(10)	10(10)



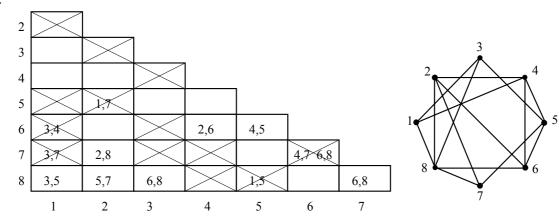
 q_1^+

Fortsättning exempel 3:
$$q_1^+ = u_1 = q_1 q_2^{'} + q_1 x + q_1 y^{'} = q_1 \cdot (q_2 x^{'} y)^{'}$$

 $q_2^+ = u_2 = q_1 q_2 + q_2 x^{'} + q_2 y = q_2 \cdot (q_1 x y^{'})^{'}$



4.



Maximala förenlighetsmängder: {1,3,8}, {1,4}, {2,4,6}, {2,6,8}, {2,7,8}, {3,5}, {4,5,6}, {5,7}

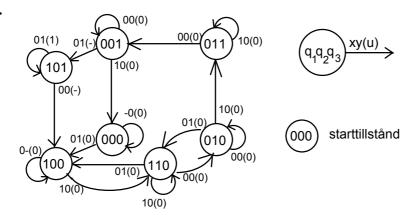
$C_{\rm i}$	$I(C_i)$
{1,3,8}	{6,8}, {3,5}
{1,4}	Φ
{2,4,6}	Φ
{2,6,8}	{5,7}
{2,7,8}	{6,8}, {5,7}
{3,5}	Φ
{4,5,6}	{2,6}
{5,7}	Φ

{1,4}, {2,6,8}, {3,5} och {5,7} bildar en minimal, täckande och sluten uppsättning av förenlighetsmängder.

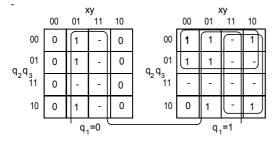
Välj $\{3\}$ istället för $\{3,5\}$ eftersom detta ger en enklare $\delta\left(\lambda\right)$ –tabell.

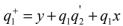
δ (λ)	00	01	11	10
A={1,4}	C(1)	B(0)	A(0)	C(0)
B={2,6,8}	A (-)	B(0)	B(1)	D(1)
C={3}	-	A(1)	B(1)	-
D={5,7}	D(0)	B(0)	B(1)	A(-)





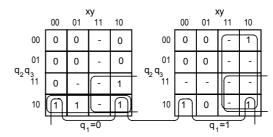
δ (λ)	00	01	11	10
000	000(0)	100(0)	-	000(0)
001	001(0)	101(-)	-	000(0)
011	001(0)	-	-	011(0)
010	010(0)	110(0)	-	011(0)
100	100(0)	100(0)	-	110(0)
101	100(-)	101(1)	-	-
111	-	-	-	-
110	010(0)	100(0)	-	110(0)



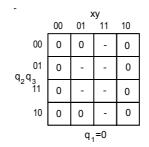


xy						>	(y		
	00	01	11	10		00	01	11	10
00	0	0	-	0	00	0	0	1	0
01 a a	1	1	-	0	01 a a	0	1	-	-
q ₂ q ₃ 11	1	-		1	q ₂ q ₃ 11	-	Ŀ		-
10	0	0	Ŀ	1	10	0	0	-	0
q ₁ =0				,		q ₁	=1		

$$q_3^+ = q_1 q_3 x^{'} + q_1 q_2 x + q_3 y$$



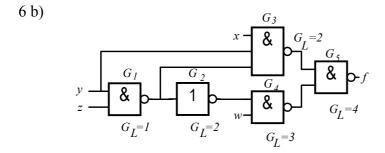
$$q_2^+ = q_1 q_2 q_3 + q_1 x + q_2 x + q_2 q_3 y$$



	ху					
	00	01	11	10		
00	0	0	ı	0		
01 q ₂ q ₃ 11	-	1	-	-		
11 2 ⁻²	Ĺ.	-	-			
10	0	0	-	0		
	q ₁ =1					

$$u = q_1 q_3$$
 eller $u = q_3 y$

Testvektorfunktionen
$$T(x,y,z,w)$$
 till felet är
$$T(x,y,z,w) = f_p(x,y,z,w) \cdot \frac{\partial}{\partial p} f(x,y,z,w,p)$$
 där $f_p(x,y,z,w) = y'+z'$ och $f(x,y,z,w,p) = xyp + wp'$
$$\frac{\partial}{\partial p} f(x,y,z,w,p) = xy \oplus w = xyw' + x' w + y' w$$
 Detta ger $T(x,y,z,w) = y' w + xyz' w' + x' z' w$ Testvektorer: $\langle xyzw \rangle = \langle -0-1 \rangle, \langle 1100 \rangle, \langle 0-01 \rangle$ dvs $\langle 0001 \rangle, \langle 0011 \rangle, \langle 0101 \rangle, \langle 1001 \rangle, \langle 1011 \rangle, \langle 1100 \rangle$



Välj evalueringsordningen $G_1 \to G_2 \to G_3 \to G_4 \to G_5$

	xyzw	G_1	G_2	G_3	G_4	G_5	$f = G_5$
	1100	1	0	0	1	1	1
Ī	x0x1	1	0	1	1	0	0