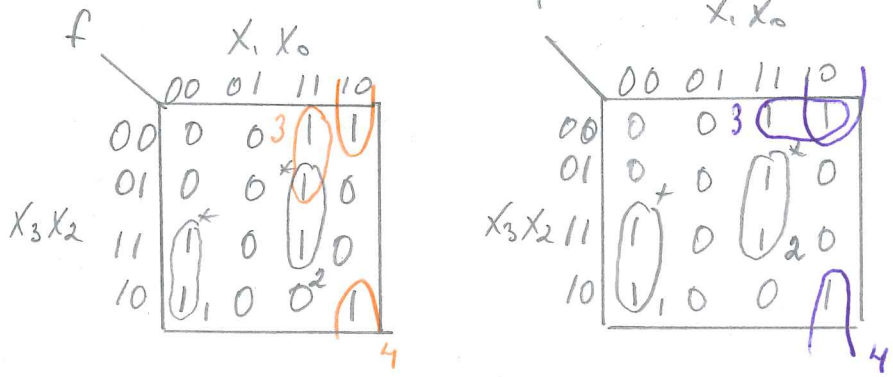
Föreläsningsanteckningar 24/9 - 12

ex 4.5 från boken.

$$f(x_3, x_2, x_1, x_0) = \Sigma\,(2, 3, 7, 8, 10, 12, 15)$$

x_3 x_2 x_1 x_0	f
0 0 1 0	1
0 0 1 1	1
0 1 1 1	1
1 0 0 0	1
1 1 0 0	1
1 1 1 1	1
övriga	0



alternativ lösning: (rött)

$$f = x_3 \cdot \overline{x_1} \cdot \overline{x_0} + x_2 \cdot x_1 \cdot x_0 + \overline{x_3} \cdot x_1 \cdot x_0 + \overline{x_2} \cdot x_1 \cdot \overline{x_0}$$

alternativ lösning 2: (blått):

$$f = x_3 \cdot \overline{x_1} \cdot \overline{x_0} + x_2 \cdot x_1 \cdot x_0 + \overline{x_3} \cdot \overline{x_2} \cdot x_1 + \overline{x_2} \cdot x_1 \cdot \overline{x_0}$$

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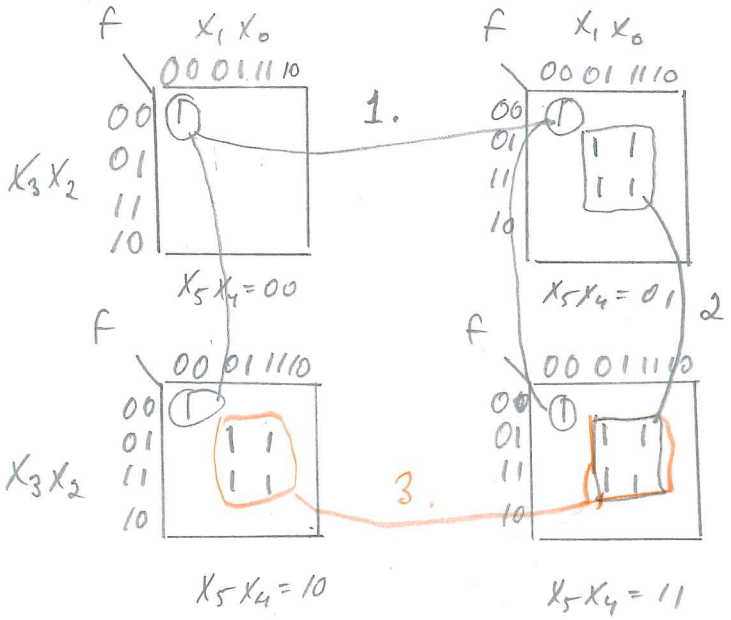
ex. på 6-variabler

$$f(x_5, x_4, x_3, x_2, x_1, x_0) = \Sigma(0, 16, 21, 23, 29, 31, 32, 37, 39, 45, 47, 48, 53, 55, 61, 63)$$

	x_5	x_4	x_3	x_2	x_1	x_0	f
0	0	0	0	0	0	0	1
16	1	0	0	0	0	0	1
21	0	1	0	1	0	1	1
23	0	1	0	1	1	1	1
29	0	1	1	1	0	1	1
31	0	1	1	1	1	1	1
32	1	0	0	0	0	0	1
37	1	0	0	1	0	1	1
39	1	0	0	1	1	1	1
45	1	0	1	1	0	1	1
47	1	0	1	1	1	1	1
48	1	1	0	0	0	0	1
53	1	1	0	1	0	1	1
55	1	1	0	1	1	1	1
61	1	1	1	1	0	1	1
63	1	1	1	1	1	1	1



$$f = \overline{x_3} \cdot \overline{x_2} \cdot \overline{x_1} \cdot \overline{x_0} + x_4 \cdot x_2 \cdot x_0 + x_5 \cdot x_2 \cdot x_0$$