

a)  $x_2$

$x_0 x_1$	00	01	11	10
0	1	1	1	0
1	0	1	1	1

$$\overline{a}\overline{c} + b + ac$$

Sohn  
de Guise

b)

	00	01	11	10
0	1	1	0	1
1	1	1	0	0

$$\overline{c} + bc -$$

$$ab \overline{a}\overline{b} \quad ab + \overline{a}\overline{b} \text{ AND } c$$

$$\overline{c} \text{ OR } (ab + \overline{a}\overline{b}) \text{ AND } c$$

c)

	00	01	11	10
0	1	0	1	1
1	1	1	1	1

$$\overline{a}\overline{b} + a + \overline{a}c$$

d)

	00	01	11	10
0	1	1	1	0
1	0	1	0	1

e)

	00	01	11	10
0	1	1	1	0
1	0	0	0	0

$$\overline{a}\overline{c} + b\overline{c}$$

f)

	00	01	11	10
0	1	0	1	1
1	0	0	0	1

$$\overline{a}\overline{b}\overline{c} + a\overline{c} + a\overline{b}$$

g)

	00	01	11	10
0	0	0	0	1
1	1	1	0	1

$$a\overline{b} + \overline{a}c$$