

Funktionen mit 3 Eingängen

$a = 2^3 = 256$ $\varepsilon \rightarrow$ Index der Eingangsbelegung

ε	x_2	x_1	x_0	Ex-OR				Antivalenz		Äquivalenz
				OR	1 u. 1	2 u. 2	1 u. 2	1	1	
0	0	0	0	0	0	0	0	0	0	
1	0	0	1	1	1	1	0	0	1	1
2	0	1	0	1	1	1	0	0	1	1
3	0	1	1	1	1	0	1	1	0	0
4	1	0	0	1	1	0	1	1	0	0
5	1	0	1	1	0	1	1	1	0	0
6	1	1	0	1	0	1	1	1	0	0
7	1	1	1	1	0	0	1	1	1	1
Symbol				≥ 1	\oplus = 1	\otimes = 2	\oplus = 1	\otimes = 1	\oplus = 1	\otimes = 1

Def.: $Y = \bigotimes_{i=0}^{k-1} x_i = x_{k-1} \otimes x_{k-2} \otimes \dots \otimes x_0$

$Y = \bigotimes_{i=0}^{k-1} \bar{x}_i = \bar{x}_{k-1} \otimes \bar{x}_{k-2} \otimes \dots \otimes \bar{x}_0$

Antivalenz	Äquivalenz
$x \otimes 0 = x$	$x \otimes 0 = \bar{x}$
$x \otimes 1 = \bar{x}$	$x \otimes 1 = x$
$x \otimes x = 0$	$x \otimes x = 1$

$x_1 \otimes x_0 = \overline{x_1 \otimes x_0}$

$x_1 \otimes \bar{x}_0 = \overline{\bar{x}_1 \otimes x_0} = x_1 \otimes x_0$