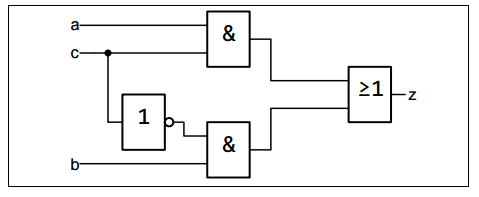
# Schaltnetze

## A1 MULTIPLEXER

z = ( a ∧ b ) ∨ (¬c ∧ b)

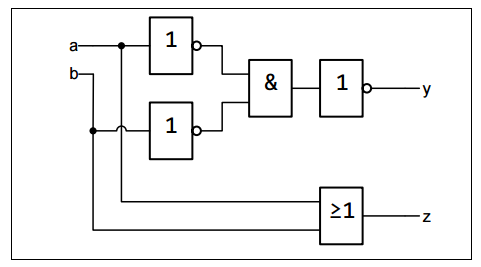
|  |  |  |  |
| --- | --- | --- | --- |
| a | b | c | z |
| 1 | 0 | 0 | 0 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 0 | 0 |
| 1 | 1 | 1 | 1 |
| 0 | 0 | 0 | 0 |
| 0 | 0 | 1 | 0 |
| 0 | 1 | 0 | 1 |
| 0 | 1 | 1 | 0 |



## A2 De Morgan

z =

|  |  |  |  |
| --- | --- | --- | --- |
| a | b | z | y |
| 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 1 | 1 |



## A3 XOR

z =

|  |  |  |  |
| --- | --- | --- | --- |
| a | b | z | y |
| 0 | 0 | 0 | 0 |
| 0 | 1 | 1 | 1 |
| 1 | 0 | 1 | 1 |
| 1 | 1 | 1 | 1 |

