

# calc\_logic\_example

## Student Group

First Name	Surname	Matrikel Nr.

## Table of Contents

example for a simplification with the rule for boolean algebra

$$\overline{a \vee (b \wedge (\bar{a} \vee c) \wedge 1) \vee a} \wedge \overline{ab} \wedge \overline{ab}$$

At first we will switch the representation to the following:

$$\overline{a \vee (b \wedge (\bar{a} \vee c) \wedge 1) \vee a} \wedge \overline{ab} \wedge \overline{ab}$$

At first we will switch the representation to the following:

$$\overline{a \vee (b \wedge (\bar{a} \vee c) \wedge 1) \vee a} \wedge \overline{ab} \wedge \overline{ab}$$

1.  $\color{blue}{\text{Neutral Element}}$

$$\overline{a \vee (b \wedge (\bar{a} \vee c) \wedge 1) \vee a} \wedge \overline{ab} \wedge \overline{ab}$$

example for a simplification with the rule for boolean algebra

$$\overline{a \vee (b \wedge (\bar{a} \vee c) \wedge 1) \vee a}$$

At first we will switch the representation to the following:

$$\overline{a \vee (b \wedge (\bar{a} \vee c) \wedge 1) \vee a}$$

so lets start  $\overline{ab} \wedge \overline{ab}$

$$\overline{a \vee (b \wedge (\bar{a} \vee c) \wedge 1) \vee a}$$

From:

<https://wiki.mexle.org/> - **MEXLE Wiki**

Permanent link:

[https://wiki.mexle.org/introduction\\_to\\_digital\\_systems/calc\\_logic\\_example?rev=1631826997](https://wiki.mexle.org/introduction_to_digital_systems/calc_logic_example?rev=1631826997)

Last update: **2021/09/16 23:16**

