

calc_logic_example

Student Group

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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:

$$(a + (b \cdot (a + c) \cdot 1) + a)$$

so lets start $\color{white}{\quad\quad\quad}$ \$

$$(a + (b \cdot (a + c) \cdot 1) + a)$$

1. Put space between the digits

\quad

$$\begin{matrix} \begin{matrix} (a + (b \cdot (a + c) \color{blue}{\cdot 1}) + a) & & \color{blue}{\text{Neutral Element}} & & \color{white}{.} & & \end{matrix} \\ \color{blue}{\quad\quad\quad\quad\quad\quad\quad\quad\quad\quad} & & & & & & \end{matrix} \end{matrix}$$

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