

$$\begin{aligned}
\overline{A}\overline{B} \vee \overline{A}\overline{C} (\overline{\overline{A}\overline{B}\overline{C}} \vee \overline{A}\overline{B}) &= \overline{A}\overline{B} \vee \overline{A}\overline{C} (\overline{A} \vee \overline{B} \vee \overline{\overline{C}} \vee \overline{A}\overline{B}) = \overline{A}\overline{B} \vee \overline{A}\overline{C} ((\overline{A} \vee \overline{A}\overline{B}) \vee \overline{B} \vee \overline{C}) = \\
&= \overline{A}\overline{B} \vee \overline{A}\overline{C} (\overline{A} \vee \overline{B} \vee \overline{C}) = \overline{A}\overline{B} \vee \overline{A}\overline{A}\overline{C} \vee \overline{A}\overline{B}\overline{C} \vee \overline{A}\overline{C}\overline{C} = \overline{A}\overline{B} \vee 0 \vee \overline{A}\overline{B}\overline{C} \vee 0 = \\
&= \overline{A}\overline{B} \vee \overline{A}\overline{B}\overline{C} = \overline{A}\overline{B} = \overline{\overline{\overline{A}\overline{B}}} = \overline{\overline{\overline{A} \vee \overline{B}}} = \overline{\overline{\overline{A}} \vee \overline{B}} = \overline{\overline{A}} \downarrow \overline{B} = (\overline{A} \downarrow \overline{A}) \downarrow \overline{B}
\end{aligned}$$