

Minimizirajmo prvo izraz $(A \vee \bar{C})\bar{C} \vee \bar{B}\bar{E} \vee (CD \vee \bar{A}E)\bar{B} \vee \bar{C}$:

$$\begin{aligned} (A \vee \bar{C})\bar{C} \vee \bar{B}\bar{E} \vee (CD \vee \bar{A}E)\bar{B} \vee \bar{C} &= (A \vee \bar{C})\bar{C}\bar{B}\bar{E} \vee (CD \vee \bar{A}E)\bar{B}\bar{C} = \\ &= (\bar{A}\bar{C} \vee \bar{C}\bar{C})(\bar{B} \vee \bar{E}) \vee (\bar{B}\bar{C}CD \vee \bar{A}\bar{B}\bar{C}E) = (\bar{A}\bar{C} \vee \bar{C})(\bar{B} \vee \bar{E}) \vee (\perp \vee \bar{A}\bar{B}\bar{C}E) = \\ &= \bar{C}(\bar{B} \vee \bar{E}) \vee \bar{A}\bar{B}\bar{C}E = \bar{B}\bar{C} \vee \bar{C}\bar{E} \vee \bar{A}\bar{B}\bar{C}E = (\bar{B}\bar{C} \vee \bar{B}\bar{C}AE) \vee \bar{C}\bar{E} = \bar{B}\bar{C} \vee \bar{C}\bar{E} = \bar{C}(\bar{B} \vee \bar{E}) \end{aligned}$$

Nadimo sada negaciju polaznog izraza i minimizirajmo je:

$$\begin{aligned} \overline{(A \vee \bar{C})\bar{C} \vee \bar{B}\bar{E} \vee (CD \vee \bar{A}E)\bar{B} \vee \bar{C}} &= \overline{(A \vee \bar{C})\bar{C} \vee \bar{B}\bar{E}} \overline{(CD \vee \bar{A}E)\bar{B} \vee \bar{C}} = \\ &= \overline{(A \vee \bar{C} \vee \bar{C} \vee \bar{B}\bar{E})} \overline{(CD \vee \bar{A}E \vee \bar{B} \vee \bar{C})} = \overline{(\bar{A}\bar{C} \vee C \vee \bar{B}\bar{E})} \overline{(CD \vee \bar{A}E \vee \bar{B} \vee C)} = \\ &= \overline{(\bar{A}\bar{C} \vee C \vee \bar{B}\bar{E})} ((\bar{C} \vee \bar{D})(\bar{A} \vee \bar{E}) \vee \bar{B} \vee C) = (C \vee \bar{B}\bar{E}) ((\bar{C} \vee \bar{D})(A \vee \bar{E}) \vee \bar{B} \vee C) = \\ &= (C \vee \bar{B}\bar{E})(\bar{A}\bar{C} \vee \bar{C}\bar{E} \vee \bar{A}\bar{D} \vee \bar{D}\bar{E} \vee \bar{B} \vee C) = (C \vee \bar{B}\bar{E})(\bar{A}\bar{C} \vee (C \vee \bar{C}\bar{E}) \vee \bar{A}\bar{D} \vee \bar{D}\bar{E} \vee \bar{B}) = \\ &= (C \vee \bar{B}\bar{E})(\bar{A}\bar{C} \vee C \vee \bar{E} \vee \bar{A}\bar{D} \vee \bar{D}\bar{E} \vee \bar{B}) = (C \vee \bar{B}\bar{E})((C \vee \bar{A}\bar{C}) \vee (\bar{E} \vee \bar{D}\bar{E}) \vee \bar{A}\bar{D} \vee \bar{B}) = \\ &= (C \vee \bar{B}\bar{E})(A \vee C \vee \bar{E} \vee \bar{A}\bar{D} \vee \bar{B}) = (C \vee \bar{B}\bar{E})((A \vee \bar{A}\bar{D}) \vee C \vee \bar{E} \vee \bar{B}) = \\ &= (C \vee \bar{B}\bar{E})(C \vee A \vee \bar{E} \vee \bar{B}) = C \vee \bar{B}\bar{E}(A \vee \bar{E} \vee \bar{B}) = C \vee \bar{B}\bar{E}A \vee \bar{B}\bar{E}\bar{E} \vee \bar{B}\bar{E}B = \\ &= C \vee \bar{B}\bar{E}A \vee \perp \vee \bar{B}\bar{E} = C \vee (\bar{B}\bar{E} \vee \bar{B}\bar{E}A) = C \vee \bar{B}\bar{E} \end{aligned}$$

S druge strane, negacijom minimizirane verzije polaznog izraza dobijamo:

$$\overline{\overline{\bar{C}(\bar{B} \vee \bar{E})}} = \bar{\bar{C}} \vee \bar{\bar{B} \vee \bar{E}} = C \vee \bar{\bar{B}}\bar{\bar{E}} = C \vee \bar{B}\bar{E}$$

Vidimo da smo dobili isti rezultat.