

$$\begin{aligned} [\sim p \vee (p \vee q)] \rightarrow p &= \sim(\sim p \wedge (p \vee q)) \vee p \text{ laws of expansion} \\ &= p \vee \sim(p \vee q) \vee q \text{ First DeMorgan law} \\ &= (p \vee q) \vee \sim(p \vee q) \text{ Associative laws for disjuncts} \\ &= T \vee T \quad \text{Laws for disjunctions} \\ &= T \quad \text{Domination law} \end{aligned}$$