1. ­­­¬((p Λ q) => (q => r)) Add ¬β to KB

¬((p Λ q) => (¬q V r)) implication elimination

¬(¬(p Λ q) V (¬q V r)) implication elimination

¬(¬(p Λ q) V ¬q V r) associativity of V

¬((¬p V ¬q) V ¬q V r) de Morgan

¬(¬p V ¬q V ¬q V r) associativity of V

¬(¬p V ¬q V r) identity of V

(p Λ q Λ ¬r) de Morgan

CNF reached

p => (q => r) KB

¬p V (q => r) implication elimination

¬p V (¬q V r) implication elimination

¬p V ¬q V r associativity of V

CNF reached

¬p V ¬q V r V (p Λ q Λ ¬r) Resolution

¬p V ¬q V r V ¬(¬p V ¬q V r) de Morgan’s

(¬p V ¬q V r) V ¬(¬p V ¬q V r) associativity of V

Empty identity of V

Resolution reached