1. (A v B) v C |- A v (B v C)

(A v B) v C |- C v (A v B) [ПК] |- (C v A) v B [П3] |- B v (C v A) [ПК] |- (B v C) v A [П3] |- A v (B v C).

!!A v B |- A v B

!!A v B [П4] |- A v B

!A v A

A v B |- !!A v B

A v B |- A v B [П4] |- B v !!A [ПК] |- !!A v B

!!A v !A. [ПК] !A v !!A.