Teoreme ale calculului propozitional clasic

$(A1) \quad \varphi \to (\psi \to \varphi)$

$(A2) \quad (\varphi \to (\psi \to \chi)) \to ((\varphi \to \psi) \to (\varphi \to \chi))$

$(A3) \quad (\neg\psi \to \neg\varphi) \to (\varphi \to \psi)$

$(1) \quad \vdash \varphi \to \varphi$

$(2) \quad \vdash (\varphi \to \psi) \to ((\psi \to \chi) \to (\varphi \to \chi))$

$(3) \quad \vdash (\varphi \to (\psi \to \chi)) \to (\psi \to (\varphi \to \chi))$

$(4) \quad \vdash \varphi \to (\neg\varphi \to \psi)$

$(5) \quad \vdash \neg\varphi \to (\varphi \to \psi)$

$(6) \quad \vdash (\neg\neg\varphi \to \varphi)$

$(7) \quad \vdash (\varphi \to \neg\neg\varphi)$

$(8) \quad \vdash (\varphi \to \psi) \to (\neg\psi \to \neg\varphi)$

$(9) \quad \vdash (\varphi \to \neg\varphi) \to \neg\varphi$

$(10) \quad \vdash (\neg\varphi \to \varphi) \to \varphi$

$(11) \quad \vdash \varphi \to (\neg\psi \to \neg(\varphi \to \psi))$

$(12) \quad \vdash \varphi \to (\varphi \vee \psi)$

$(13) \quad \vdash \psi \to (\varphi \vee \psi)$

$(14) \quad \vdash \varphi \vee \psi \to \psi \vee \varphi$

$(15) \quad \vdash (\varphi \to \chi) \to ((\psi \to \chi) \to (\varphi \vee \psi \to \chi))$

$(16) \quad \vdash \varphi \wedge \psi \to \varphi$

$(17) \quad \vdash \varphi \wedge \psi \to \psi$

$(18) \quad \vdash (\chi \to \varphi) \to ((\chi \to \psi) \to (\chi \to \varphi \wedge \psi))$

$(19) \quad \vdash \varphi \wedge \psi \to \psi \wedge \varphi$

$(20) \quad \vdash \varphi \to (\psi \to \varphi \wedge \psi)$

$(21) \quad \vdash (\varphi \to (\psi \to \chi)) \to (\varphi \wedge \psi \to \chi)$

$(22) \quad \vdash (\varphi \wedge \psi \to \chi) \to (\varphi \to (\psi \to \chi))$

$(23) \quad \vdash (\varphi \to \psi) \to (\varphi \vee \chi \to \psi \vee \chi)$

$(24) \quad \vdash (\varphi \to \psi) \to (\varphi \wedge \chi \to \psi \wedge \chi)$

$(25) \quad \vdash (\varphi \wedge \psi \to \chi) \to (\varphi \wedge \neg\chi \to \neg\psi)$

$(26) \quad \vdash \varphi \vee \neg\varphi$

$(27) \quad \vdash ((\varphi \to \chi) \wedge (\psi \to \delta)) \to (\varphi \wedge \psi \to \chi \wedge \delta)$

$(28) \quad \vdash ((\varphi \to \chi) \wedge (\psi \to \delta)) \to (\varphi \vee \psi \to \chi \vee \delta)$

$(29) \quad \vdash (\varphi \vee (\psi \vee \chi)) \leftrightarrow ((\varphi \vee \psi) \vee \chi)$

$(30) \quad \vdash (\varphi \wedge (\psi \wedge \chi)) \leftrightarrow ((\varphi \wedge \psi) \wedge \chi)$

$(31) \quad \vdash (\varphi \wedge (\psi \vee \chi)) \leftrightarrow ((\varphi \wedge \psi) \vee (\varphi \wedge \chi))$

$(32) \quad \vdash (\varphi \vee (\psi \wedge \chi)) \leftrightarrow ((\varphi \vee \psi) \wedge (\varphi \vee \chi))$