LaTeX for Logic

AMK

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Theorem 1 (fist proof) $a, \neg a, \neg b \vdash b$.

$(1) a, \neg a, \neg b \vdash b$	*belong*
$(2) a, \neg a, \neg b \vdash \neg a$	*belong*
$(3) a, \neg a, \neg b \vdash b$	*not_cancellation*(1)(2)

Theorem 2 (second proof) $a, \neg a, \neg b \vdash b$.

$(1) a, \neg a, \neg b \vdash b$	*belong*
$(2) a, \neg a, \neg b \vdash \neg a$	*belong*
$(3) a, \neg a, \neg b \vdash b$	*not_cancellation*(1)(2)