LaTeX for Logic

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

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

Theorem 3 (firstProof) $a, \neg a, \neg b \vdash b$.

$(aa)a, \neg a, \neg b \vdash b$	$belong$
$(bb)a, \neg a, \neg b \vdash b$	$belong$
$(cc)a, \neg a, \neg b \vdash b$	$notCancellation(aa)(bb)$

Theorem 4 (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 5 (second proof) $a, \neg a, \neg b \vdash b$.

$(1)a, \neg a, \neg b \vdash b$	$belong$
$(2)a, \neg a, \neg b \vdash \neg a$	$belong$
$(3)a, \neg a, \neg b \vdash b$	$not\_cancellation(1)(2)$