ex 1. $A \to (B \to A)$

2. $(A \to (B \to C)) \to ((A \to B) \to (A \to C))$

3. $((A \to B) \to A) \to A$ Pierce

4. $\bot \to A$ Elim $\bot$

A

$(\neg B \to \neg A) \to (A \to B)$

$A \vee B \quad \neg A \to B$

2 :
$$\frac{A \to B \qquad A}{B} \qquad \lambda x\,(x\ trap)$$

trap : garder le dernier element de la pile (non empilement) et renvoyer

$(A \to \bot) \vee A \qquad A \vee B \quad (A \to \bot) \to B$

$[[A \to \bot] \to \bot \to A]$

$(A \vee B) \leftrightarrow ((A \to \bot) \to B)$ $(A \to \bot)$

$(\subset t_1)$

. $A \wedge B \to A$
. $A \wedge B \to B$
. $A \to (B \to A \wedge B)$

. $A \to A \vee B$
$B \to A \vee B$
. $(A \to C) \to ((B \to C) \to (A \vee B \to C))$

$\vdash$.

. . . $\vdash$ . . .

$A_1 \ldots A_n \vdash B$

$\vdash (A_n \to B)$

$\vdash A \wedge B \qquad A \vee (A \to \bot)$

$\vdash A$