

Règles de la déduction naturelle

$$\begin{array}{c}
\frac{}{\Gamma, F \vdash F} (\text{ax}) \qquad \frac{\Gamma \vdash F}{\Gamma, G \vdash F} (\text{aff}) \\[10pt]
\frac{\Gamma, F \vdash G}{\Gamma \vdash F \Rightarrow G} (\Rightarrow_i) \qquad \frac{\Gamma \vdash F \Rightarrow G \quad \Gamma \vdash F}{\Gamma \vdash G} (\Rightarrow_e) \\[10pt]
\frac{\Gamma \vdash F \quad \Gamma \vdash G}{\Gamma \vdash F \wedge G} (\wedge_i) \qquad \frac{\Gamma \vdash F \wedge G}{\Gamma \vdash F} (\wedge_e^g) \quad \frac{\Gamma \vdash F \wedge G}{\Gamma \vdash G} (\wedge_e^d) \\[10pt]
\frac{\Gamma \vdash F}{\Gamma \vdash F \vee G} (\vee_i^g) \quad \frac{\Gamma \vdash G}{\Gamma \vdash F \vee G} (\vee_i^d) \qquad \frac{\Gamma \vdash F \vee G \quad \Gamma, F \vdash H \quad \Gamma, G \vdash H}{\Gamma \vdash H} (\vee_e) \\[10pt]
\frac{\Gamma, F \vdash \perp}{\Gamma \vdash \neg F} (\neg_i) \qquad \frac{\Gamma \vdash \neg F \quad \Gamma \vdash F}{\Gamma \vdash \perp} (\neg_e) \qquad \frac{\Gamma, \neg F \vdash \perp}{\Gamma \vdash F} (\perp_c) \\[10pt]
\frac{\Gamma \vdash F \text{ où } x \text{ non libre dans } \Gamma}{\Gamma \vdash \forall x, F} (\forall_i) \qquad \frac{\Gamma \vdash \forall x, F}{\Gamma \vdash F[x \rightarrow t]} (\forall_e) \\[10pt]
\frac{\Gamma \vdash F[x \rightarrow t]}{\Gamma \vdash \exists x, F} (\exists_i) \qquad \frac{\Gamma \vdash \exists x, F \quad \Gamma \cup \{F\} \vdash G \quad x \text{ libre ni dans } \Gamma \text{ ni dans } G}{\Gamma \vdash G} (\exists_e)
\end{array}$$