Règles de la déduction naturelle

$$\frac{A \in \Gamma}{\Gamma \vdash A} \quad (ax) \qquad \qquad \overline{\Gamma \vdash \top} \quad (\top_i)$$

$$\frac{\Gamma, \neg A \vdash \bot}{\Gamma \vdash A} \quad (RAA) \qquad ou \qquad \qquad \frac{\Gamma \vdash \bot}{\Gamma \vdash A} \quad (\bot_e)$$

$$\frac{\Gamma, A \vdash B}{\Gamma \vdash A \to B} \quad (\to_i) \qquad \qquad \frac{\Gamma \vdash A \to B}{\Gamma \vdash B} \quad (\to_e)$$

$$\frac{\Gamma, A \vdash \bot}{\Gamma \vdash \neg A} \quad (\neg_i) \qquad \qquad \frac{\Gamma \vdash \neg A \quad \Gamma \vdash A}{\Gamma \vdash \bot} \quad (\neg_e)$$

$$\frac{\Gamma \vdash A \quad \Gamma \vdash B}{\Gamma \vdash A \land B} \quad (\land_i) \qquad \qquad \frac{\Gamma \vdash A \land B}{\Gamma \vdash A} \quad (\land_{e_g}) \qquad \qquad \frac{\Gamma \vdash A \land B}{\Gamma \vdash B} \quad (\land_{e_d})$$

$$\frac{\Gamma \vdash A}{\Gamma \vdash A \lor B} \quad (\lor_{i_g}) \qquad \qquad \frac{\Gamma \vdash B}{\Gamma \vdash A \lor B} \quad (\lor_{i_d}) \qquad \qquad \frac{\Gamma \vdash A \lor B}{\Gamma \vdash A} \quad (\lor_e)$$

$$\frac{\Gamma \vdash A}{\Gamma \vdash A \lor B} \quad (\lor_i) \qquad \qquad \frac{\Gamma \vdash A \lor B}{\Gamma \vdash A \lor B} \quad (\lor_e)$$

$$\frac{\Gamma \vdash A}{\Gamma \vdash A \lor B} \quad (\exists_i) \qquad \qquad \frac{\Gamma \vdash \exists x \ A}{\Gamma \vdash B} \quad x \notin FV(\Gamma, B) \quad (\exists_e)$$