

\exists -*introduction*:

$$\frac{\frac{\Gamma}{P[\tau/t]}}{\exists t P}$$

As in \forall -elimination, τ is an arbitrary term and the same proviso on bound variables in P applies.

\exists -*elimination*:

$$\frac{\frac{\Gamma}{\exists t P} \quad \frac{\Delta, P[u/t]^x}{C}}{C} \quad x$$

Here, u must be a variable that does not occur free in any of the propositions in Δ , $\exists t P$, or C , and all premises $P[u/t]$ labeled x are discharged.