

## **l\_exists\_cons**<sup>11,40</sup>

$\forall T:\text{Type}, P:(T \rightarrow \text{prop}\{i:l\}), x:T, L:(T \text{ List}).$

$\text{l\_exists}(\text{cons}(x; L); T; y.P(y)) \iff (P(x) \vee \text{l\_exists}(L; T; y.P(y)))$