choicef_lemma[12,41]

$\forall\%xm$:XM, T:Type, P:($T\rightarrow\mathbb{P}$). $(\exists a{:}T.\ P(a)) \Rightarrow P(\in x{:}T.\ P(x))$

ProofTree

http://www.nuprl.org/FDLcontent/p0_942988_/p2_3685_{choicef_lemma}.html