

# t4\_xtuple\_0 (TMHRzMrbppBSLL- cPruzUigzdZa9FVY3bVDG)

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Let  $v2\_xtuple\_0 : \iota \Rightarrow o$  be given. Let  $k4\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k5\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k3\_xtuple\_0 : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v2\_xtuple\_0 X0) \Rightarrow (k3\_xtuple\_0 (k4\_xtuple\_0 X0) (k5\_xtuple\_0 X0) (k2\_xtuple\_0 X0) = X0) \quad (1)$$

## Theorem 1

$$\forall X0.(v2\_xtuple\_0 X0) \Rightarrow (\forall X1.(v2\_xtuple\_0 X1) \Rightarrow ((k4\_xtuple\_0 X0 = k4\_xtuple\_0 X1) \wedge ((k5\_xtuple\_0 X0 = k5\_xtuple\_0 X1) \wedge (k2\_xtuple\_0 X0 = k2\_xtuple\_0 X1))) \Rightarrow (X0 = X1))$$