

t2\_xtuple\_0 (TMJo-  
HQTFg6hC8Bo75GuZZLEPLHypJRz3ckm)

October 27, 2020

Let  $v1\_xtuple\_0 : \iota \Rightarrow o$  be given. Let  $k1\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k2\_xtuple\_0 : \iota \Rightarrow \iota$  be given. Let  $k4\_tarski : \iota \Rightarrow \iota \Rightarrow \iota$  be given. Assume the following.

$$\forall X0.(v1\_xtuple\_0 X0) \Rightarrow (k4\_tarski (k1\_xtuple\_0 X0) (k2\_xtuple\_0 X0) = X0) \quad (1)$$

**Theorem 1**

$$\forall X0.(v1\_xtuple\_0 X0) \Rightarrow (\forall X1.(v1\_xtuple\_0 X1) \Rightarrow ((k1\_xtuple\_0 X0 = k1\_xtuple\_0 X1) \wedge (k2\_xtuple\_0 X0 = k2\_xtuple\_0 X1)) \Rightarrow (X0 = X1)))$$