

t1_recdef_2 (TMSsX- oUUo7Z1AWXqG5RkG4LWEsYA86HAoAj)

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Let $k3_xtuple_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v2_xtuple_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. (v2_xtuple_0 X0) \Rightarrow (k3_xtuple_0 (k4_xtuple_0 X0) (k5_xtuple_0 X0) (k2_xtuple_0 X0) = X0) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. \forall X2. v2_xtuple_0 (k3_xtuple_0 X0 X1 X2) \quad (2)$$

Theorem 1

$$\forall X0. (\exists X1. \exists X2. \exists X3. X0 = k3_xtuple_0 X1 X2 X3) \Rightarrow (X0 = k3_xtuple_0 (k4_xtuple_0 X0) (k5_xtuple_0 X0) (k2_xtuple_0 X0))$$