

t3_recdef_2

(TMFu62pDCjVVqs8qNB6rUaHzTYfXFgLGiQr)

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Let $k3_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. 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. Assume the following.

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. \neg (X0 \in k3_zfmisc_1 \\ & X1 X2 X3) \wedge (\forall X4. \forall X5. \forall X6. \neg (X4 \in X1) \wedge ((X5 \in X2) \wedge \\ & ((X6 \in X3) \wedge (X0 = k3_xtuple_0 X4 X5 X6)))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (\exists X1. \exists X2. \exists X3. X0 = k3_xtuple_0 \\ & X1 X2 X3) \Rightarrow (X0 = k3_xtuple_0 (k4_xtuple_0 X0) (k5_xtuple_0 X0) (k2_xtuple_0 \\ & X0)) \end{aligned} \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. \forall X3. (X0 \in k3_zfmisc_1 \\ & X1 X2 X3) \Rightarrow (X0 = k3_xtuple_0 (k4_xtuple_0 X0) (k5_xtuple_0 X0) (k2_xtuple_0 \\ & X0)) \end{aligned}$$