

t7_glib_004

(TMJcH6zPy95tHkaPVQNpyStdvrKV1QEwEzC)

October 27, 2020

Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $v4_relat_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_partfun1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_valued_0 : \iota \Rightarrow o$ be given. Let $v2_pre_poly : \iota \Rightarrow o$ be given. Let $k3_uproots : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_reset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v4_relat_1 X1 X0)) \Rightarrow (k1_reset_1 X0 X1 = k9_xtuple_0 X1) \quad (1)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_relat_1 X1) \wedge (v4_relat_1 X1 X0)) \Rightarrow (v1_partfun1 X1 X0 \Leftrightarrow (k1_reset_1 X0 X1 = X0)) \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0. \forall X1. \forall X2. ((v1_relat_1 X2) \wedge ((v4_relat_1 \\ & X2 X0) \wedge ((v1_funct_1 X2) \wedge ((v1_partfun1 X2 X0) \wedge ((v3_valued_0 X2) \wedge \\ & (v2_pre_poly X2)))))) \Rightarrow (\forall X3. ((v1_relat_1 X3) \wedge ((v4_relat_1 \\ & X3 X1) \wedge ((v1_funct_1 X3) \wedge ((v1_partfun1 X3 X1) \wedge ((v3_valued_0 X3) \wedge \\ & (v2_pre_poly X3)))))) \Rightarrow ((X2 = X3) \Rightarrow (k3_uproots X0 X2 = k3_uproots \\ & X1 X3))) \end{aligned}$$