

t35_pnproc_1
(TMG1Y9pE2HExdre6B6kdPjt3oRMzhsxjPbs)

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Let $m2_pnproc_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m3_pnproc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_relat_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_partfun1 : \iota \Rightarrow \iota$ be given. Let $k9_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k7_pnproc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_relat_1 : \iota \Rightarrow o$ be given. Let $k4_relat_1 : \iota \Rightarrow \iota$ be given. Let $k9_xtuple_0 : \iota \Rightarrow \iota$ be given. Let $m1_pnproc_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_pnproc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1_relat_1 X0) \Rightarrow (k3_relat_1 (k4_relat_1 (k9_xtuple_0 X0)) X0 = X0) \quad (1)$$

Assume the following.

$$\forall X0.k6_partfun1 X0 = k4_relat_1 X0 \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.(m2_pnproc_1 X1 X0) \Rightarrow (\forall X2.(m3_pnproc_1 X2 X0 X1) \Rightarrow (m1_pnproc_1 X2 X0)) \quad (3)$$

Assume the following.

$$\forall X0.\forall X1.(m1_pnproc_1 X1 X0) \Rightarrow ((v1_relat_1 (k7_pnproc_1 X0 X1)) \wedge (v1_funct_1 (k7_pnproc_1 X0 X1))) \quad (4)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.(m1_pnproc_1 X1 X0) \Rightarrow (\forall X2.((v1_relat_1 X2) \wedge (v1_funct_1 X2)) \Rightarrow ((X2 = k7_pnproc_1 X0 X1) \Leftrightarrow ((k9_xtuple_0 X2 = k9_funct_2 X0 k5_numbers) \wedge (\forall X3.((v1_funct_1 X3) \wedge (v1_funct_2 X3 X0 k5_numbers) \wedge (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))))) \Rightarrow (k1_funct_1 X2 X3 = k6_pnproc_1 X0 X3 X1)))))) \end{aligned} \quad (5)$$

Theorem 1

$$\forall X0. \forall X1. (m2_pnproc_1 X1 X0) \Rightarrow (\forall X2. (m3_pnproc_1 X2 X0 X1) \Rightarrow (k3_relat_1 (k6_partfun1 (k9_funct_2 X0 k5_numbers)) (k7_pnproc_1 X0 X2) = k7_pnproc_1 X0 X2))$$