

t25_pnproc_1 (TMd- mAx5Xz9qCZxky2ZUXN6yRGeZU3R3yv4)

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Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_numbers : \iota$ 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 $r2_pnproc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_pnproc_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 X0 k5_numbers) \wedge \\
 & (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))) \Rightarrow \\
 & (\forall X2. ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 X0 k5_numbers) \wedge \\
 & (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))) \Rightarrow \\
 & (\forall X3. ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 X0 k5_numbers) \wedge \\
 & (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))) \Rightarrow \\
 & (((r2_pnproc_1 X0 X1 X2) \wedge (r2_pnproc_1 X0 X2 X3)) \Rightarrow (r2_pnproc_1 \\
 & X0 (k3_pnproc_1 X0 X2 X1) (k3_pnproc_1 X0 X3 X1)))))) \tag{1}
 \end{aligned}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 X0 k5_numbers) \wedge \\
 & (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))) \Rightarrow \\
 & (\forall X2. ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 X0 k5_numbers) \wedge \\
 & (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))) \Rightarrow \\
 & (\forall X3. ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 X0 k5_numbers) \wedge \\
 & (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))) \Rightarrow \\
 & (((r2_pnproc_1 X0 X1 X2) \wedge (r2_pnproc_1 X0 X2 X3)) \Rightarrow (r2_pnproc_1 \\
 & X0 (k3_pnproc_1 X0 X3 X2) (k3_pnproc_1 X0 X3 X1)))))) \tag{2}
 \end{aligned}$$

Assume the following.

$$\begin{aligned}
 & \forall X0. \forall X1. ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 X0 k5_numbers) \wedge \\
 & (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))) \Rightarrow \\
 & (\forall X2. ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 X0 k5_numbers) \wedge \\
 & (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))) \Rightarrow \\
 & (\forall X3. ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 X0 k5_numbers) \wedge \\
 & (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))) \Rightarrow \\
 & (((r2_pnproc_1 X0 X1 X2) \wedge (r2_pnproc_1 X0 X2 X3)) \Rightarrow (r2_pnproc_1 \\
 & X0 X1 X3)))))) \tag{3}
 \end{aligned}$$

Assume the following.

$$\begin{aligned}
& \forall X0. \forall X1. \forall X2. (((v1_funct_1 X1) \wedge ((v1_funct_2 \\
& X1 X0 k5_numbers) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 \\
& k5_numbers)))))) \wedge ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 X0 k5_numbers) \wedge \\
& (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))))) \Rightarrow \\
& ((v1_funct_1 (k3_pnproc_1 X0 X1 X2)) \wedge ((v1_funct_2 (k3_pnproc_1 \\
& X0 X1 X2) X0 k5_numbers) \wedge (m1_subset_1 (k3_pnproc_1 X0 X1 X2) (k1_zfmisc_1 \\
& (k2_zfmisc_1 X0 k5_numbers))))))
\end{aligned} \tag{4}$$

Theorem 1

$$\begin{aligned}
& \forall X0. \forall X1. ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 X0 k5_numbers) \wedge \\
& (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))))) \Rightarrow \\
& (\forall X2. ((v1_funct_1 X2) \wedge ((v1_funct_2 X2 X0 k5_numbers) \wedge \\
& (m1_subset_1 X2 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))))) \Rightarrow \\
& (\forall X3. ((v1_funct_1 X3) \wedge ((v1_funct_2 X3 X0 k5_numbers) \wedge \\
& (m1_subset_1 X3 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))))) \Rightarrow \\
& (\forall X4. ((v1_funct_1 X4) \wedge ((v1_funct_2 X4 X0 k5_numbers) \wedge \\
& (m1_subset_1 X4 (k1_zfmisc_1 (k2_zfmisc_1 X0 k5_numbers)))))) \Rightarrow \\
& (((r2_pnproc_1 X0 X1 X2) \wedge ((r2_pnproc_1 X0 X3 X4) \wedge (r2_pnproc_1 \\
& X0 X4 X1))) \Rightarrow (r2_pnproc_1 X0 (k3_pnproc_1 X0 X1 X4) (k3_pnproc_1 \\
& X0 X2 X3))))))
\end{aligned}$$