

t94_group_3
(TMJbAXbrjVPQq72Uv6j882oiqm34Evqeezg)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v2_group_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k8_group_3 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $r4_group_3 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 \\ & X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (\forall X1.(m1_subset_1 X1 (k1_zfmisc_1 \\ & (u1_struct_0 X0))) \Rightarrow (k8_group_3 X0 X1 = ReplSep (toset (\lambda X2 : \quad (1) \\ & \iota.m1_subset_1 X2 (k1_zfmisc_1 (u1_struct_0 X0)))) (\lambda X2 : \\ & \iota.r4_group_3 X0 X1 X2) (\lambda X2 : \iota.X2))) \end{aligned}$$

Theorem 1

$$\begin{aligned} & \forall X0.\forall X1.((\neg v2_struct_0 X1) \wedge ((v2_group_1 X1) \wedge (\\ & v3_group_1 X1) \wedge (l3_algstr_0 X1)))) \Rightarrow (\forall X2.(m1_subset_1 \\ & X2 (k1_zfmisc_1 (u1_struct_0 X1))) \Rightarrow ((X0 \in k8_group_3 X1 X2) \Leftrightarrow (\exists X3. \\ & (m1_subset_1 X3 (k1_zfmisc_1 (u1_struct_0 X1))) \wedge ((X0 = X3) \wedge (r4_group_3 \\ & X1 X2 X3)))))) \end{aligned}$$