

t6_ncfcont1
(TMaVjkb4Yy2GPowf1VHprCDTBvqCXzfBteu)

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Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_normsp_0 : \iota \Rightarrow o$ be given. Let $v4_normsp_0 : \iota \Rightarrow o$ be given. Let $v2_clvect_1 : \iota \Rightarrow o$ be given. Let $v3_clvect_1 : \iota \Rightarrow o$ be given. Let $v4_clvect_1 : \iota \Rightarrow o$ be given. Let $v5_clvect_1 : \iota \Rightarrow o$ be given. Let $v8_clvect_1 : \iota \Rightarrow o$ be given. Let $l2_clvect_1 : \iota \Rightarrow o$ be given. Let $v5_rlvect_1 : \iota \Rightarrow o$ be given. Let $v6_rlvect_1 : \iota \Rightarrow o$ be given. Let $v7_rlvect_1 : \iota \Rightarrow o$ be given. Let $v8_rlvect_1 : \iota \Rightarrow o$ be given. Let $v2_normsp_1 : \iota \Rightarrow o$ be given. Let $l1_normsp_1 : \iota \Rightarrow o$ 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 $u1_struct_0 : \iota \Rightarrow \iota$ 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 $r1_tarski : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_normsp_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v2_rlvect_1 \\
& X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge ((v5_rlvect_1 X0) \wedge \\
& ((v6_rlvect_1 X0) \wedge ((v7_rlvect_1 X0) \wedge ((v8_rlvect_1 X0) \wedge ((v3_normsp_0 \\
& X0) \wedge ((v4_normsp_0 X0) \wedge ((v2_normsp_1 X0) \wedge (l1_normsp_1 X0)))))))))) \Rightarrow \\
& (\forall X1. ((v1_funct_1 X1) \wedge ((v1_funct_2 X1 k5_numbers (u1_struct_0 \\
& X0)) \wedge (m1_subset_1 X1 (k1_zfmisc_1 (k2_zfmisc_1 k5_numbers (u1_struct_0 \\
& X0)))))) \Rightarrow (\forall X2. (X2 \in k2_relset_1 (u1_struct_0 X0) X1) \Leftrightarrow (\\
& \exists X3. (m2_subset_1 X3 k1_numbers k5_numbers) \wedge (X2 = k1_normsp_1 \\
& X0 X1 X3))))))
\end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. \forall X1. (r1_tarski X0 X1) \Leftrightarrow (\forall X2. (X2 \in X0) \Rightarrow (X2 \in X1)) \tag{2}$$

Theorem 1

$$\begin{aligned}
& \forall X0.(m2_subset_1 \ X0 \ k1_numbers \ k5_numbers) \Rightarrow (\forall X1. \\
& ((\neg v2_struct_0 \ X1) \wedge ((v13_algstr_0 \ X1) \wedge ((v2_rlvect_1 \ X1) \wedge ((\\
& v3_rlvect_1 \ X1) \wedge ((v4_rlvect_1 \ X1) \wedge ((v3_normsp_0 \ X1) \wedge ((v4_normsp_0 \\
& X1) \wedge ((v2_clvect_1 \ X1) \wedge ((v3_clvect_1 \ X1) \wedge ((v4_clvect_1 \ X1) \wedge \\
& ((v5_clvect_1 \ X1) \wedge ((v8_clvect_1 \ X1) \wedge (l2_clvect_1 \ X1)))))))))) \Rightarrow \\
& (\forall X2. ((\neg v2_struct_0 \ X2) \wedge ((v13_algstr_0 \ X2) \wedge ((v2_rlvect_1 \\
& X2) \wedge ((v3_rlvect_1 \ X2) \wedge ((v4_rlvect_1 \ X2) \wedge ((v5_rlvect_1 \ X2) \wedge \\
& ((v6_rlvect_1 \ X2) \wedge ((v7_rlvect_1 \ X2) \wedge ((v8_rlvect_1 \ X2) \wedge ((v3_normsp_0 \\
& X2) \wedge ((v4_normsp_0 \ X2) \wedge ((v2_normsp_1 \ X2) \wedge (l1_normsp_1 \ X2)))))))))) \Rightarrow \\
& (\forall X3. ((v1_funct_1 \ X3) \wedge ((v1_funct_2 \ X3 \ k5_numbers \ (u1_struct_0 \\
& X2)) \wedge (m1_subset_1 \ X3 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ k5_numbers \ (u1_struct_0 \\
& X2)))))) \Rightarrow (\forall X4. ((v1_funct_1 \ X4) \wedge (m1_subset_1 \ X4 \ (k1_zfmisc_1 \\
& (k2_zfmisc_1 \ (u1_struct_0 \ X2) \ (u1_struct_0 \ X1)))))) \Rightarrow ((r1_tarski \\
& (k2_relset_1 \ (u1_struct_0 \ X2) \ X3) \ (k1_relset_1 \ (u1_struct_0 \ X2) \\
& X4)) \Rightarrow (k1_normsp_1 \ X2 \ X3 \ X0 \in k1_relset_1 \ (u1_struct_0 \ X2) \ X4))))))
\end{aligned}$$