

l27_algstr_1

(TMUdRY5mga75jpu9Xa1Fyee9a3xTWe5W2m)

October 27, 2020

Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l4_algstr_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k6_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_struct_0 : \iota \Rightarrow \iota$ be given. Let $l3_struct_0 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(l4_algstr_0 X0) \Rightarrow ((l3_struct_0 X0) \wedge (l3_algstr_0 X0)) \quad (1)$$

Assume the following.

$$\forall X0.(l3_struct_0 X0) \Rightarrow (m1_subset_1 (k5_struct_0 X0) (u1_struct_0 X0)) \quad (2)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge (l4_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2.(m1_subset_1 X2 \\ & (u1_struct_0 X0)) \Rightarrow ((\forall X3.(m1_subset_1 X3 (u1_struct_0 \\ & X0)) \Rightarrow (k6_algstr_0 X0 X3 (k5_struct_0 X0) = X3)) \wedge ((\forall X3.(\\ & m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (\exists X4.(m1_subset_1 X4 \\ & (u1_struct_0 X0)) \wedge (k6_algstr_0 X0 X3 X4 = k5_struct_0 X0)))) \wedge ((\\ & \forall X3.(m1_subset_1 X3 (u1_struct_0 X0)) \Rightarrow (\forall X4.(m1_subset_1 \\ & X4 (u1_struct_0 X0)) \Rightarrow (\forall X5.(m1_subset_1 X5 (u1_struct_0 \\ & X0)) \Rightarrow (k6_algstr_0 X0 (k6_algstr_0 X0 X3 X4) X5 = k6_algstr_0 X0 X3 \\ & (k6_algstr_0 X0 X4 X5)))))) \wedge (k6_algstr_0 X0 X1 X2 = k5_struct_0 X0)))) \Rightarrow \\ & (k6_algstr_0 X0 X2 X1 = k5_struct_0 X0)) \end{aligned}$$