

l23_algstr_1

(TMXF7bFftBXt1tXtb4B2G9znXJPnPstwmvJ)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k8_algstr_0 : \iota$ be given. Let $k6_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l4_algstr_0 : \iota \Rightarrow o$ be given. Let $l3_struct_0 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0.(m1_subset_1 X0 (u1_struct_0 k8_algstr_0)) \Rightarrow (\forall X1. \\ (m1_subset_1 X1 (u1_struct_0 k8_algstr_0)) \Rightarrow (X0 = X1)) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0.(l4_algstr_0 X0) \Rightarrow ((l3_struct_0 X0) \wedge (l3_algstr_0 X0)) \quad (2)$$

Assume the following.

$$l4_algstr_0 k8_algstr_0 \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.\forall X1.\forall X2.((l3_algstr_0 X0) \wedge ((m1_subset_1 \\ X1 (u1_struct_0 X0)) \wedge (m1_subset_1 X2 (u1_struct_0 X0)))) \Rightarrow (m1_subset_1 \\ (k6_algstr_0 X0 X1 X2) (u1_struct_0 X0)) \end{aligned} \quad (4)$$

Theorem 1

$$\begin{aligned} \forall X0.(m1_subset_1 X0 (u1_struct_0 k8_algstr_0)) \Rightarrow (\forall X1. \\ (m1_subset_1 X1 (u1_struct_0 k8_algstr_0)) \Rightarrow (\exists X2.(m1_subset_1 \\ X2 (u1_struct_0 k8_algstr_0)) \wedge (k6_algstr_0 k8_algstr_0 X0 X2 = \\ X1))) \end{aligned}$$