

l46_algstr_1 (TMLPYJFPRGDuedvcXN- Rux1SMmC8yCDik79a)

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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 $k3_algstr_1 : \iota$ be given. Let $k6_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k1_xboole_0 : \iota$ be given. Let $l5_algstr_0 : \iota \Rightarrow o$ be given. Let $l4_algstr_0 : \iota \Rightarrow o$ be given. Let $l4_struct_0 : \iota \Rightarrow o$ be given. Let $l2_struct_0 : \iota \Rightarrow o$ be given. Let $l3_struct_0 : \iota \Rightarrow o$ be given. Let $v29_algstr_0 : \iota \Rightarrow o$ be given. Assume the following.

$$k6_numbers = k1_xboole_0 \tag{1}$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (u1_struct_0 k3_algstr_1)) \Rightarrow (k6_algstr_0 k3_algstr_1 X0 (k4_struct_0 k3_algstr_1) = k4_struct_0 k3_algstr_1) \tag{2}$$

Assume the following.

$$\begin{aligned} &\forall X0.(m1_subset_1 X0 (u1_struct_0 k3_algstr_1)) \Rightarrow (\forall X1. \\ &(m1_subset_1 X1 (u1_struct_0 k3_algstr_1)) \Rightarrow (\forall X2.(m1_subset_1 \\ &X2 (u1_struct_0 k3_algstr_1)) \Rightarrow ((k6_algstr_0 k3_algstr_1 X0 X1 = \\ &k6_algstr_0 k3_algstr_1 X0 X2) \Rightarrow ((X0 = k4_struct_0 k3_algstr_1) \vee \\ &(X1 = X2)))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} &\forall X0.(m1_subset_1 X0 (u1_struct_0 k3_algstr_1)) \Rightarrow (\forall X1. \\ &(m1_subset_1 X1 (u1_struct_0 k3_algstr_1)) \Rightarrow (\neg(X0 \neq k4_struct_0 \\ &k3_algstr_1) \wedge (\forall X2.(m1_subset_1 X2 (u1_struct_0 k3_algstr_1)) \Rightarrow \\ &(k6_algstr_0 k3_algstr_1 X2 X0 \neq X1)))))) \end{aligned} \tag{4}$$

Assume the following.

$$k6_numbers = k4_struct_0 k3_algstr_1 \tag{5}$$

Assume the following.

$$\forall X0.(l5_algstr_0 X0) \Rightarrow ((l4_algstr_0 X0) \wedge (l4_struct_0 X0)) \tag{6}$$

Assume the following.

$$\forall X0.(l4_struct_0 X0) \Rightarrow ((l2_struct_0 X0) \wedge (l3_struct_0 X0)) \quad (7)$$

Assume the following.

$$\forall X0.(l2_struct_0 X0) \Rightarrow (m1_subset_1 (k4_struct_0 X0) (u1_struct_0 X0)) \quad (8)$$

Assume the following.

$$(v29_algstr_0 k3_algstr_1) \wedge (l5_algstr_0 k3_algstr_1) \quad (9)$$

Theorem 1

$$\forall X0.(m1_subset_1 X0 (u1_struct_0 k3_algstr_1)) \Rightarrow (k6_algstr_0 k3_algstr_1 (k4_struct_0 k3_algstr_1) X0 = k4_struct_0 k3_algstr_1)$$