

t152_zmodul01

(TMbajQZMW3mD5dT9oJRqugk1kwjuxjirkuj)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l2_algstr_0 : \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_numbers : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k2_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12_zmodul01 : \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. 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 $k5_binom : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_binom : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 \\ & k4_numbers) \Rightarrow (\forall X3. (m2_subset_1 X3 k1_numbers k5_numbers) \Rightarrow \\ & ((X2 = X3) \Rightarrow (k2_binop_1 k4_numbers (u1_struct_0 X0) (u1_struct_0 \\ & X0) (k12_zmodul01 X0) X2 X1 = k5_binom X0 X1 X3)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow ((k5_binom X0 X1 k6_numbers = \\ & k4_struct_0 X0) \wedge (k6_binom X0 X1 k6_numbers = k4_struct_0 X0))) \end{aligned} \quad (2)$$

Assume the following.

$$m2_subset_1 k6_numbers k1_numbers k5_numbers \quad (3)$$

Theorem 1

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 X0) \wedge (l2_algstr_0 X0)) \Rightarrow (\forall X1. \\ & (m1_subset_1 X1 (u1_struct_0 X0)) \Rightarrow (\forall X2. (m1_subset_1 X2 \\ & k4_numbers) \Rightarrow ((X2 = k6_numbers) \Rightarrow (k2_binop_1 k4_numbers (u1_struct_0 \\ & X0) (u1_struct_0 X0) (k12_zmodul01 X0) X2 X1 = k4_struct_0 X0)))) \end{aligned}$$