

t14_weddwitt

(TMGZiaU5uoyBnQazccC4qSEbVA5AAsKnVTH)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v8_struct_0 : \iota \Rightarrow o$ be given. Let $v2_group_1 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $m2_finseq_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k3_weddwitt : \iota \Rightarrow \iota$ be given. Let $v2_funct_1 : \iota \Rightarrow o$ be given. Let $k2_relset_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_numbers : \iota$ be given. Let $k3_finseq_1 : \iota \Rightarrow \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k4_finseq_1 : \iota \Rightarrow \iota$ be given. Let $k1_seq_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_card_1 : \iota \Rightarrow \iota$ be given. Let $k1_funct_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_group_1 : \iota \Rightarrow \iota$ be given. Let $k2_wsierp_1 : \iota \Rightarrow \iota$ be given. Let $v1_finset_1 : \iota \Rightarrow o$ be given. Let $m1_eqrel_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k5_card_1 : \iota \Rightarrow \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $k7_struct_0 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & \forall X0.(v1_finset_1 X0) \Rightarrow (\forall X1.(m1_eqrel_1 X1 X0) \Rightarrow (\\ & \quad \forall X2.(m2_finseq_1 X2 X1) \Rightarrow (((v2_funct_1 X2) \wedge (k2_relset_1 \\ & \quad X1 X2 = X1)) \Rightarrow (\forall X3.(m2_finseq_1 X3 k5_numbers) \Rightarrow (((k3_finseq_1 \\ & \quad X3 = k3_finseq_1 X2) \wedge (\forall X4.(m2_subset_1 X4 k1_numbers k5_numbers) \Rightarrow \\ & \quad ((X4 \in k4_finseq_1 X3) \Rightarrow (k1_seq_1 X3 X4 = k1_card_1 (k1_funct_1 X2 \\ & \quad X4)))))) \Rightarrow (k5_card_1 X0 = k2_wsierp_1 X3)))))) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0.((v8_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (k7_group_1 X0 = k7_struct_0 X0) \tag{2}$$

Assume the following.

$$\forall X0.(v1_finset_1 X0) \Rightarrow (k5_card_1 X0 = k1_card_1 X0) \tag{3}$$

Assume the following.

$$\forall X0.((v8_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (v1_finset_1 (u1_struct_0 X0)) \tag{4}$$

Assume the following.

$$\forall X0.(l3_algstr_0 X0) \Rightarrow (l1_struct_0 X0) \quad (5)$$

Assume the following.

$$\forall X0.((\neg v2_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 X0)))) \Rightarrow (m1_eqrel_1 (k3_weddwitt X0) (u1_struct_0 X0)) \quad (6)$$

Assume the following.

$$\forall X0.(l1_struct_0 X0) \Rightarrow (k7_struct_0 X0 = k1_card_1 (u1_struct_0 X0)) \quad (7)$$

Theorem 1

$$\begin{aligned} & \forall X0.((\neg v2_struct_0 X0) \wedge ((v8_struct_0 X0) \wedge ((v2_group_1 X0) \wedge ((v3_group_1 X0) \wedge (l3_algstr_0 X0))))) \Rightarrow (\forall X1.(m2_finseq_1 X1 (k3_weddwitt X0)) \Rightarrow (((v2_funct_1 X1) \wedge (k2_relset_1 (k3_weddwitt X0) X1 = k3_weddwitt X0)) \Rightarrow (\forall X2.(m2_finseq_1 X2 k5_numbers) \Rightarrow (((k3_finseq_1 X2 = k3_finseq_1 X1) \wedge (\forall X3.(m2_subset_1 X3 k1_numbers k5_numbers) \Rightarrow ((X3 \in k4_finseq_1 X2) \Rightarrow (k1_seq_1 X2 X3 = k1_card_1 (k1_funct_1 X1 X3))))) \Rightarrow (k7_group_1 X0 = k2_wsierp_1 X2)))))) \end{aligned}$$