

t9_ideal_1

(TMKgeaKpUF5KZYcywgMnB8qsPYRhgzqSY8s)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $v2_vectsp_1 : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k6_domain_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_ideal_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $v3_ideal_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $v5_algstr_0 : \iota \Rightarrow o$ be given. Let $l2_algstr_0 : \iota \Rightarrow o$ be given. Let $k1_tarski : \iota \Rightarrow \iota$ be given. Let $l1_struct_0 : \iota \Rightarrow o$ be given. Let $l5_algstr_0 : \iota \Rightarrow o$ be given. Let $l2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_algstr_0 : \iota \Rightarrow o$ be given. Let $v1_algstr_1 : \iota \Rightarrow o$ be given. Let $v4_algstr_1 : \iota \Rightarrow o$ be given. Let $v6_algstr_0 : \iota \Rightarrow o$ be given. Let $v2_algstr_1 : \iota \Rightarrow o$ be given. Let $v3_algstr_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v5_algstr_0 X0) \wedge ((v4_rlvect_1 \\ X0) \wedge ((v2_vectsp_1 X0) \wedge (l6_algstr_0 X0)))))) \Rightarrow & (v3_ideal_1 (k6_domain_1 \\ & (u1_struct_0 X0) (k4_struct_0 X0)) X0) \end{aligned} \tag{1}$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v4_rlvect_1 X0) \wedge (l2_algstr_0 X0))) \Rightarrow (v1_ideal_1 (k6_domain_1 (u1_struct_0 X0) (k4_struct_0 X0)) X0) \tag{2}$$

Assume the following.

$$\forall X0. \forall X1. ((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow (k6_domain_1 X0 X1 = k1_tarski X1) \tag{3}$$

Assume the following.

$$\forall X0. \neg v1_xboole_0 (k1_tarski X0) \tag{4}$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge (l1_struct_0 X0)) \Rightarrow (\neg v1_xboole_0 (u1_struct_0 X0)) \tag{5}$$

Assume the following.

$$\forall X0.(l6_algstr_0 X0) \Rightarrow ((l2_algstr_0 X0) \wedge (l5_algstr_0 X0)) \quad (6)$$

Assume the following.

$$\forall X0.(l2_algstr_0 X0) \Rightarrow ((l2_struct_0 X0) \wedge (l1_algstr_0 X0)) \quad (7)$$

Assume the following.

$$\forall X0.(l1_algstr_0 X0) \Rightarrow (l1_struct_0 X0) \quad (8)$$

Assume the following.

$$\forall X0.\forall X1.((\neg v1_xboole_0 X0) \wedge (m1_subset_1 X1 X0)) \Rightarrow (m1_subset_1 (k6_domain_1 X0 X1) (k1_zfmisc_1 X0)) \quad (9)$$

Assume the following.

$$\forall X0.(l2_struct_0 X0) \Rightarrow (m1_subset_1 (k4_struct_0 X0) (u1_struct_0 X0)) \quad (10)$$

Assume the following.

$$\forall X0.(l2_algstr_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v3_rlvect_1 X0) \wedge (v4_rlvect_1 X0)))) \Rightarrow ((\neg v2_struct_0 X0) \wedge ((v1_algstr_1 X0) \wedge (v4_algstr_1 X0)))) \quad (11)$$

Assume the following.

$$\forall X0.(l2_algstr_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge (v4_algstr_1 X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge ((v5_algstr_0 X0) \wedge ((v6_algstr_0 X0) \wedge ((v2_algstr_1 X0) \wedge (v3_algstr_1 X0)))))) \quad (12)$$

Theorem 1

$$\forall X0.(((\neg v2_struct_0 X0) \wedge ((v13_algstr_0 X0) \wedge ((v3_rlvect_1 X0) \wedge ((v4_rlvect_1 X0) \wedge ((v2_vectsp_1 X0) \wedge (l6_algstr_0 X0)))))) \Rightarrow (((\neg v1_xboole_0 (k6_domain_1 (u1_struct_0 X0) (k4_struct_0 X0))) \wedge ((v1_ideal_1 (k6_domain_1 (u1_struct_0 X0) (k4_struct_0 X0)) \wedge ((v3_ideal_1 (k6_domain_1 (u1_struct_0 X0) (k4_struct_0 X0)) \wedge ((v3_ideal_1 (k6_domain_1 (u1_struct_0 X0) (k4_struct_0 X0)) \wedge (m1_subset_1 (k6_domain_1 (u1_struct_0 X0) (k4_struct_0 X0)) (k1_zfmisc_1 (u1_struct_0 X0)))))))))$$