

t4_fvsum_1

(TMKC7rXmpfuyEXTZ4pThQKcx1tACrLVBzGx)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v5_group_1 : \iota \Rightarrow o$ be given. Let $v6_vectsp_1 : \iota \Rightarrow o$ be given. Let $l4_algstr_0 : \iota \Rightarrow o$ be given. Let $r3_binop_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k5_struct_0 : \iota \Rightarrow \iota$ be given. Let $u2_algstr_0 : \iota \Rightarrow \iota$ be given. Let $v1_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $k1_group_1 : \iota \Rightarrow \iota$ be given. Let $v4_vectsp_1 : \iota \Rightarrow o$ be given. Let $l3_struct_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v1_group_1 X0) \wedge (l3_algstr_0 X0))) \Rightarrow (r3_binop_1 (u1_struct_0 X0) (k1_group_1 X0) (u2_algstr_0 X0)) \quad (1)$$

Assume the following.

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v4_vectsp_1 X0) \wedge (l4_algstr_0 X0))) \Rightarrow (k1_group_1 X0 = k5_struct_0 X0) \quad (2)$$

Assume the following.

$$\forall X0. (l4_algstr_0 X0) \Rightarrow ((l3_struct_0 X0) \wedge (l3_algstr_0 X0)) \quad (3)$$

Assume the following.

$$\forall X0. (l4_algstr_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge (v4_vectsp_1 X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge (v1_group_1 X0))) \quad (4)$$

Assume the following.

$$\forall X0. (l4_algstr_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge ((v5_group_1 X0) \wedge (v6_vectsp_1 X0))) \Rightarrow ((\neg v2_struct_0 X0) \wedge (v4_vectsp_1 X0))) \quad (5)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v5_group_1 X0) \wedge ((v6_vectsp_1 X0) \wedge (l4_algstr_0 X0)))) \Rightarrow (r3_binop_1 (u1_struct_0 X0) (k5_struct_0 X0) (u2_algstr_0 X0))$$