

t9_fvsum_1 (TMUsXBSRuDUT- gpQ867zNRddSjX5gJ4q9ydu)

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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 $v1_setwiseo : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u2_algstr_0 : \iota \Rightarrow \iota$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $v1_group_1 : \iota \Rightarrow o$ be given. Let $l3_algstr_0 : \iota \Rightarrow o$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $l3_struct_0 : \iota \Rightarrow o$ be given. Let $v4_vectsp_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 X0) \wedge ((v1_group_1 X0) \wedge (l3_algstr_0 \\ &X0))) \Rightarrow ((v1_funct_1 (u2_algstr_0 X0)) \wedge ((v1_funct_2 (u2_algstr_0 \\ &X0) (k2_zfmisc_1 (u1_struct_0 X0) (u1_struct_0 X0)) (u1_struct_0 \\ &X0)) \wedge (v1_setwiseo (u2_algstr_0 X0) (u1_struct_0 X0)))) \end{aligned} \quad (1)$$

Assume the following.

$$\forall X0. (l4_algstr_0 X0) \Rightarrow ((l3_struct_0 X0) \wedge (l3_algstr_0 X0)) \quad (2)$$

Assume the following.

$$\forall X0. (l4_algstr_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge (v4_vectsp_1 X0)) \Rightarrow ((\neg v2_struct_0 X0) \wedge (v1_group_1 X0))) \quad (3)$$

Assume the following.

$$\forall X0. (l4_algstr_0 X0) \Rightarrow (((\neg v2_struct_0 X0) \wedge ((v5_group_1 X0) \wedge (v6_vectsp_1 X0))) \Rightarrow ((\neg v2_struct_0 X0) \wedge (v4_vectsp_1 X0))) \quad (4)$$

Theorem 1

$$\forall X0. ((\neg v2_struct_0 X0) \wedge ((v5_group_1 X0) \wedge ((v6_vectsp_1 X0) \wedge (l4_algstr_0 X0)))) \Rightarrow (v1_setwiseo (u2_algstr_0 X0) (u1_struct_0 X0))$$