l2_algstr_2 (TMV3wee1TuCFUHHNKdRcJKrLjkm2ccBjT8P)

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Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k2\_vectsp\_1 : \iota$ be given. Let $k4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $k8\_group\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k3\_rlvect\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_algstr\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k1\_xboole\_0 : \iota$ be given. Let $k5\_complex1 : \iota$ be given. Let $v6\_struct\_0 : \iota \Rightarrow o$ be given. Let $v13\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v33\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v36\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v2\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v3\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v4\_rlvect\_1 : \iota \Rightarrow o$ be given. Let $v3\_group\_1 : \iota \Rightarrow o$ be given. Let $v5\_group\_1 : \iota \Rightarrow o$ be given. Let $v3\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $v5\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $v6\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l6\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l2\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l5\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l4\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l4\_struct\_0 : \iota \Rightarrow o$ be given. Let $l3\_struct\_0 : \iota \Rightarrow o$ be given. Let

$l3\_algstr\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k2\_vectsp\_1)) \Rightarrow (\forall X1.\ (m1\_subset\_1\ X1\ (u1\_struct\_0\ k2\_vectsp\_1)) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ k2\_vectsp\_1)) \Rightarrow ((k3\_rlvect\_1\ k2\_vectsp\_1\ X0\ X1 = k3\_rlvect\_1\ k2\_vectsp\_1\ X1\ X0) \wedge ((k3\_rlvect\_1\ k2\_vectsp\_1\ (k3\_rlvect\_1\ k2\_vectsp\_1\ X0\ X1)\ X2 = k3\_rlvect\_1\ k2\_vectsp\_1\ X0\ (k3\_rlvect\_1\ k2\_vectsp\_1\ X1\ X2)) \wedge ((k3\_rlvect\_1\ k2\_vectsp\_1\ X0\ (k4\_struct\_0\ k2\_vectsp\_1) = X0) \wedge ((k3\_rlvect\_1\ k2\_vectsp\_1\ X0\ (k4\_algstr\_0\ k2\_vectsp\_1\ X0) = k4\_struct\_0\ k2\_vectsp\_1) \wedge ((k8\_group\_1\ k2\_vectsp\_1\ X0\ X1 = k8\_group\_1\ k2\_vectsp\_1\ X1\ X0) \wedge ((k8\_group\_1\ k2\_vectsp\_1\ (k8\_group\_1\ k2\_vectsp\_1\ X0\ X1)\ X2 = k8\_group\_1\ k2\_vectsp\_1\ X0\ (k8\_group\_1\ k2\_vectsp\_1\ X1\ X2)) \wedge ((k8\_group\_1\ k2\_vectsp\_1\ (k5\_struct\_0\ k2\_vectsp\_1)\ X0 = X0) \wedge ((\neg(X0 \neq k4\_struct\_0\ k2\_vectsp\_1)) \wedge (\forall X3.(m1\_subset\_1\ X3\ (u1\_struct\_0\ k2\_vectsp\_1)) \Rightarrow (k8\_group\_1\ k2\_vectsp\_1\ X3\ X0 \neq k5\_struct\_0\ k2\_vectsp\_1))) \wedge ((k8\_group\_1\ k2\_vectsp\_1\ X0\ (k3\_rlvect\_1\ k2\_vectsp\_1\ X1\ X2) = k3\_rlvect\_1\ k2\_vectsp\_1\ (k8\_group\_1\ k2\_vectsp\_1\ X0\ X1)\ (k8\_group\_1\ k2\_vectsp\_1\ X0\ X2)) \wedge (k8\_group\_1\ k2\_vectsp\_1\ (k3\_rlvect\_1\ k2\_vectsp\_1\ X1\ X2)\ X0 = k3\_rlvect\_1\ k2\_vectsp\_1\ (k8\_group\_1\ k2\_vectsp\_1\ X1\ X0)\ (k8\_group\_1\ k2\_vectsp\_1\ X2\ X0)))))))))))) \tag{1}$$

Assume the following.

$$k5\_struct\_0\ k2\_vectsp\_1 = np\_\_1 \tag{2}$$

Assume the following.

$$k6\_numbers = k1\_xboole\_0 \tag{3}$$

Assume the following.

$$k5\_complex1 = k1\_xboole\_0 \tag{4}$$

Assume the following.

$$k6\_numbers = k4\_struct\_0\ k2\_vectsp\_1 \tag{5}$$

Assume the following.

$$(\neg v6\_struct\_0\ k2\_vectsp\_1) \wedge ((v13\_algstr\_0\ k2\_vectsp\_1) \wedge ((v33\_algstr\_0\ k2\_vectsp\_1) \wedge ((v36\_algstr\_0\ k2\_vectsp\_1) \wedge ((v2\_rlvect\_1\ k2\_vectsp\_1) \wedge ((v3\_rlvect\_1\ k2\_vectsp\_1) \wedge ((v4\_rlvect\_1\ k2\_vectsp\_1) \wedge ((v3\_group\_1\ k2\_vectsp\_1) \wedge ((v5\_group\_1\ k2\_vectsp\_1) \wedge ((v3\_vectsp\_1\ k2\_vectsp\_1) \wedge ((v5\_vectsp\_1\ k2\_vectsp\_1) \wedge (v6\_vectsp\_1\ k2\_vectsp\_1))))))))))) \tag{6}$$

Assume the following.

$$(\neg v2\_struct\_0\ k2\_vectsp\_1) \wedge (v36\_algstr\_0\ k2\_vectsp\_1) \tag{7}$$

Assume the following.

$$\forall X0.(l6\_algstr\_0\ X0)\Rightarrow((l2\_algstr\_0\ X0)\wedge(l5\_algstr\_0\ X0)) \tag{8}$$

Assume the following.

$$\forall X0.(l5\_algstr\_0\ X0)\Rightarrow((l4\_algstr\_0\ X0)\wedge(l4\_struct\_0\ X0)) \tag{9}$$

Assume the following.

$$\forall X0.(l4\_algstr\_0\ X0)\Rightarrow((l3\_struct\_0\ X0)\wedge(l3\_algstr\_0\ X0)) \tag{10}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0)\wedge((v5\_group\_1\ X0)\wedge(l3\_algstr\_0\ X0)))\wedge((m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\wedge(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))))\Rightarrow(m1\_subset\_1\ (k8\_group\_1\ X0\ X1\ X2)\ (u1\_struct\_0\ X0)) \tag{11}$$

Assume the following.

$$\forall X0.(l3\_struct\_0\ X0)\Rightarrow(m1\_subset\_1\ (k5\_struct\_0\ X0)\ (u1\_struct\_0\ X0)) \tag{12}$$

Assume the following.

$$(v36\_algstr\_0\ k2\_vectsp\_1)\wedge(l6\_algstr\_0\ k2\_vectsp\_1) \tag{13}$$

Assume the following.

$$\forall X0.\forall X1.\forall X2.(((\neg v2\_struct\_0\ X0)\wedge((v5\_group\_1\ X0)\wedge(l3\_algstr\_0\ X0)))\wedge((m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\wedge(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))))\Rightarrow(k8\_group\_1\ X0\ X1\ X2 = k8\_group\_1\ X0\ X2\ X1) \tag{14}$$

Theorem 1

$$\forall X0.(m1\_subset\_1\ X0\ (u1\_struct\_0\ k2\_vectsp\_1))\Rightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ k2\_vectsp\_1))\Rightarrow(\neg(X0\neq k4\_struct\_0\ k2\_vectsp\_1)\wedge(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ k2\_vectsp\_1))\Rightarrow(k8\_group\_1\ k2\_vectsp\_1\ X0\ X2\neq X1))))$$