t49_afvect0 (TMJYS7kMTDiZd7PWhusgRivrErR7beo7aFj)

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Let $v2\_struct\_0 : \iota \Rightarrow o$ be given. Let $v7\_struct\_0 : \iota \Rightarrow o$ be given. Let $v13\_algstr\_0 : \iota \Rightarrow o$ 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 $v12\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $v1\_tdgroup : \iota \Rightarrow o$ be given. Let $l2\_algstr\_0 : \iota \Rightarrow o$ be given. Let $k2\_tdgroup : \iota \Rightarrow \iota$ be given. Let $v2\_tdgroup : \iota \Rightarrow o$ be given. Let $l1\_analoaf : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $l2\_struct\_0 : \iota \Rightarrow o$ be given. Let $l1\_algstr\_0 : \iota \Rightarrow o$ be given. Let $l1\_struct\_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v12\_vectsp\_1\ X0)\wedge((v1\_tdgroup\ X0)\wedge(l2\_algstr\_0\ X0)))))))\Rightarrow((\neg\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\Rightarrow(X1 = X2)))\Rightarrow((\neg v7\_struct\_0\ (k2\_tdgroup\ X0))\wedge((v2\_tdgroup\ (k2\_tdgroup\ X0))\wedge(l1\_analoaf\ (k2\_tdgroup\ X0))))) \tag{1}$$

Assume the following.

$$\forall X0.(l2\_algstr\_0\ X0)\Rightarrow((l2\_struct\_0\ X0)\wedge(l1\_algstr\_0\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.(l1\_algstr\_0\ X0)\Rightarrow(l1\_struct\_0\ X0) \tag{3}$$

Assume the following.

$$\forall X0.(l1\_struct\_0\ X0)\Rightarrow((v7\_struct\_0\ X0)\Leftrightarrow(\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0))\Rightarrow(\forall X2.(m1\_subset\_1\ X2\ (u1\_struct\_0\ X0))\Rightarrow(X1 = X2)))) \tag{4}$$

Theorem 1

$$\forall X0.((\neg v2\_struct\_0\ X0)\wedge((\neg v7\_struct\_0\ X0)\wedge((v13\_algstr\_0\ X0)\wedge((v2\_rlvect\_1\ X0)\wedge((v3\_rlvect\_1\ X0)\wedge((v4\_rlvect\_1\ X0)\wedge((v12\_vectsp\_1\ X0)\wedge((v1\_tdgroup\ X0)\wedge(l2\_algstr\_0\ X0)))))))))\Rightarrow((\neg v7\_struct\_0\ (k2\_tdgroup\ X0))\wedge((v2\_tdgroup\ (k2\_tdgroup\ X0))\wedge(l1\_analoaf\ (k2\_tdgroup\ X0))))$$