l5_algstr_2 (TMVvCJhcT3GbP7FCQcWdxiuAku6LeKrfQLk)

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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 $k8\_group\_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4\_struct\_0 : \iota \Rightarrow \iota$ be given. Let $v2\_struct\_0 : \iota \Rightarrow o$ 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 $v2\_rlvect\_1 : \iota \Rightarrow o$ 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 $v4\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $v5\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $l6\_algstr\_0 : \iota \Rightarrow o$ be given. Let $k6\_numbers : \iota$ be given. Let $v36\_algstr\_0 : \iota \Rightarrow o$ be given. Let $v3\_vectsp\_1 : \iota \Rightarrow o$ be given. Let $v6\_vectsp\_1 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((\neg v6\_struct\_0\ X0) \wedge ((v13\_algstr\_0\ X0) \wedge ((v33\_algstr\_0\ X0) \wedge ((v2\_rlvect\_1\ X0) \wedge ((v3\_rlvect\_1\ X0) \wedge ((v4\_rlvect\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge ((v5\_group\_1\ X0) \wedge ((v4\_vectsp\_1\ X0) \wedge ((v5\_vectsp\_1\ X0) \wedge (l6\_algstr\_0\ X0))))))))))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (k8\_group\_1\ X0\ (k4\_struct\_0\ X0)\ X1 = k4\_struct\_0\ X0)) \tag{1}$$

Assume the following.

$$\forall X0.((\neg v2\_struct\_0\ X0) \wedge ((\neg v6\_struct\_0\ X0) \wedge ((v13\_algstr\_0\ X0) \wedge ((v33\_algstr\_0\ X0) \wedge ((v2\_rlvect\_1\ X0) \wedge ((v3\_rlvect\_1\ X0) \wedge ((v4\_rlvect\_1\ X0) \wedge ((v3\_group\_1\ X0) \wedge ((v5\_group\_1\ X0) \wedge ((v4\_vectsp\_1\ X0) \wedge ((v5\_vectsp\_1\ X0) \wedge (l6\_algstr\_0\ X0))))))))))) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ (u1\_struct\_0\ X0)) \Rightarrow (k8\_group\_1\ X0\ X1\ (k4\_struct\_0\ X0) = k4\_struct\_0\ X0)) \tag{2}$$

Assume the following.

$$k6\_numbers = k4\_struct\_0\ k2\_vectsp\_1 \tag{3}$$

Assume the following.

$$(\neg v6\_struct\_0\ k2\_vectsp\_1)\wedge((v13\_algstr\_0\ k2\_vectsp\_1)\wedge((v33\_algstr\_0\ k2\_vectsp\_1)\wedge((v36\_algstr\_0\ k2\_vectsp\_1)\wedge((v2\_rlvect\_1\ k2\_vectsp\_1)\wedge((v3\_rlvect\_1\ k2\_vectsp\_1)\wedge((v4\_rlvect\_1\ k2\_vectsp\_1)\wedge((v3\_group\_1\ k2\_vectsp\_1)\wedge((v5\_group\_1\ k2\_vectsp\_1)\wedge((v3\_vectsp\_1\ k2\_vectsp\_1)\wedge((v5\_vectsp\_1\ k2\_vectsp\_1)\wedge(v6\_vectsp\_1\ k2\_vectsp\_1))))))))))) \tag{4}$$

Assume the following.

$$(v36\_algstr\_0\ k2\_vectsp\_1)\wedge(v4\_vectsp\_1\ k2\_vectsp\_1) \tag{5}$$

Assume the following.

$$(\neg v2\_struct\_0\ k2\_vectsp\_1)\wedge(v36\_algstr\_0\ k2\_vectsp\_1) \tag{6}$$

Assume the following.

$$(v36\_algstr\_0\ k2\_vectsp\_1)\wedge(l6\_algstr\_0\ k2\_vectsp\_1) \tag{7}$$

Theorem 1

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