

l36_hermitan

(TMH6qqpWn8rBBfhFASVRozMci2MrgnYDjdn)

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Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $l1_vectsp_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_complfld : \iota$ be given. Let $v1_funct_1 : \iota \Rightarrow o$ be given. Let $v1_funct_2 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_zfmisc_1 : \iota \Rightarrow \iota$ be given. Let $k2_zfmisc_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_binop_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_bilinear : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7_hahnban1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $v1_vectsp_1 : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $v6_struct_0 : \iota \Rightarrow o$ be given. Let $v33_algstr_0 : \iota \Rightarrow o$ be given. Let $v36_algstr_0 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ 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 $v2_rlvect_1 : \iota \Rightarrow o$ be given. Let $v2_vectsp_1 : \iota \Rightarrow o$ be given. Assume the following.

$$k4_struct_0 \ k1_complfld = k6_numbers \tag{1}$$

Assume the following.

$$\begin{aligned} & \forall X0. ((\neg v2_struct_0 \ X0) \wedge ((v13_algstr_0 \ X0) \wedge ((v3_rlvect_1 \\ & X0) \wedge ((v4_rlvect_1 \ X0) \wedge ((v1_vectsp_1 \ X0) \wedge (l6_algstr_0 \ X0)))))) \Rightarrow \\ & (\forall X1. ((\neg v2_struct_0 \ X1) \wedge (l1_vectsp_1 \ X1 \ X0)) \Rightarrow (\forall X2. \\ & ((\neg v2_struct_0 \ X2) \wedge (l1_vectsp_1 \ X2 \ X0)) \Rightarrow (\forall X3. ((v1_funct_1 \\ & X3) \wedge ((v1_funct_2 \ X3 \ (u1_struct_0 \ X1) \ (u1_struct_0 \ X0)) \wedge (m1_subset_1 \\ & X3 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \ (u1_struct_0 \ X1) \ (u1_struct_0 \ X0)))))) \Rightarrow \\ & (\forall X4. (m1_subset_1 \ X4 \ (u1_struct_0 \ X1)) \Rightarrow (\forall X5. (m1_subset_1 \\ & X5 \ (u1_struct_0 \ X2)) \Rightarrow (k2_binop_1 \ (u1_struct_0 \ X1) \ (u1_struct_0 \\ & X2) \ (u1_struct_0 \ X0) \ (k9_bilinear \ X0 \ X1 \ X2 \ X3 \ (k7_hahnban1 \ X0 \ X2)) \\ & X4 \ X5 = k4_struct_0 \ X0)))))) \end{aligned} \tag{2}$$

Assume the following.

$$\begin{aligned}
& (\neg v6_struct_0 \ k1_complfld) \wedge ((v13_algstr_0 \ k1_complfld) \wedge ((\\
& \quad v33_algstr_0 \ k1_complfld) \wedge ((v36_algstr_0 \ k1_complfld) \wedge ((v3_group_1 \\
& \quad k1_complfld) \wedge ((v5_group_1 \ k1_complfld) \wedge ((v3_vectsp_1 \ k1_complfld) \wedge \\
& \quad ((v5_vectsp_1 \ k1_complfld) \wedge ((v6_vectsp_1 \ k1_complfld) \wedge ((v2_rlvect_1 \\
& \quad k1_complfld) \wedge ((v3_rlvect_1 \ k1_complfld) \wedge (v4_rlvect_1 \ k1_complfld)))))))))) \\
& \tag{3}
\end{aligned}$$

Assume the following.

$$(\neg v2_struct_0 \ k1_complfld) \wedge (v36_algstr_0 \ k1_complfld) \tag{4}$$

Assume the following.

$$(v36_algstr_0 \ k1_complfld) \wedge (l6_algstr_0 \ k1_complfld) \tag{5}$$

Assume the following.

$$\begin{aligned}
& \forall X0. (l6_algstr_0 \ X0) \Rightarrow (((\neg v2_struct_0 \ X0) \wedge (v5_vectsp_1 \\
& \quad X0)) \Rightarrow ((\neg v2_struct_0 \ X0) \wedge ((v1_vectsp_1 \ X0) \wedge (v2_vectsp_1 \ X0)))) \\
& \tag{6}
\end{aligned}$$

Theorem 1

$$\begin{aligned}
& \forall X0. ((\neg v2_struct_0 \ X0) \wedge (l1_vectsp_1 \ X0 \ k1_complfld)) \Rightarrow \\
& (\forall X1. ((v1_funct_1 \ X1) \wedge ((v1_funct_2 \ X1 \ (u1_struct_0 \ X0) \\
& \quad (u1_struct_0 \ k1_complfld)) \wedge (m1_subset_1 \ X1 \ (k1_zfmisc_1 \ (k2_zfmisc_1 \\
& \quad (u1_struct_0 \ X0) \ (u1_struct_0 \ k1_complfld)))))) \Rightarrow (\forall X2. \\
& \quad (m1_subset_1 \ X2 \ (u1_struct_0 \ X0)) \Rightarrow (\forall X3. (m1_subset_1 \ X3 \\
& \quad (u1_struct_0 \ X0)) \Rightarrow (k2_binop_1 \ (u1_struct_0 \ X0) \ (u1_struct_0 \\
& \quad X0) \ (u1_struct_0 \ k1_complfld) \ (k9_bilinear \ k1_complfld \ X0 \ X0 \ X1 \\
& \quad (k7_hahnban1 \ k1_complfld \ X0)) \ X2 \ X3 = k4_struct_0 \ k1_complfld)))
\end{aligned}$$