

t40_quatern2
(TMUYq92AUgCzfnymRYaJ7JZkdedJxBwx5bM)

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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 $k16_quatern2 : \iota$ be given. Let $k4_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_algstr_0 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_group_1 : \iota \Rightarrow \iota$ be given. Let $k2_quatern2 : \iota$ be given. Let $k5_struct_0 : \iota \Rightarrow \iota$ be given. Let $v2_struct_0 : \iota \Rightarrow o$ be given. Let $v13_algstr_0 : \iota \Rightarrow o$ be given. Let $v3_group_1 : \iota \Rightarrow o$ be given. Let $v4_vectsp_1 : \iota \Rightarrow o$ be given. Let $v5_vectsp_1 : \iota \Rightarrow o$ be given. Let $v2_rlvect_1 : \iota \Rightarrow o$ be given. Let $v3_rlvect_1 : \iota \Rightarrow o$ be given. Let $v4_rlvect_1 : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $v6_struct_0 : \iota \Rightarrow o$ be given. Let $v34_algstr_0 : \iota \Rightarrow o$ 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.

$$k1_group_1 \ k16_quatern2 = k2_quatern2 \quad (1)$$

Assume the following.

$$k5_struct_0 \ k16_quatern2 = k2_quatern2 \quad (2)$$

Assume the following.

$$\begin{aligned} \forall X0. (&(\neg v2_struct_0 \ X0) \wedge ((v13_algstr_0 \ X0) \wedge ((v3_group_1 \\ X0) \wedge ((v4_vectsp_1 \ X0) \wedge ((v5_vectsp_1 \ X0) \wedge ((v2_rlvect_1 \ X0) \wedge \\ ((v3_rlvect_1 \ X0) \wedge ((v4_rlvect_1 \ X0) \wedge (l6_algstr_0 \ X0)))))))))) \Rightarrow & (3) \\ (\forall X1. (m1_subset_1 \ X1 \ (u1_struct_0 \ X0)) \Rightarrow (k6_algstr_0 \ X0 \\ (k4_algstr_0 \ X0 \ (k5_struct_0 \ X0)) \ X1 = k4_algstr_0 \ X0 \ X1)) & \end{aligned}$$

Assume the following.

$$\begin{aligned} (&\neg v6_struct_0 \ k16_quatern2) \wedge ((v13_algstr_0 \ k16_quatern2) \wedge \\ ((v34_algstr_0 \ k16_quatern2) \wedge ((v36_algstr_0 \ k16_quatern2) \wedge \\ ((v2_rlvect_1 \ k16_quatern2) \wedge ((v3_rlvect_1 \ k16_quatern2) \wedge \\ (v4_rlvect_1 \ k16_quatern2) \wedge ((v3_group_1 \ k16_quatern2) \wedge ((v3_vectsp_1 \\ k16_quatern2) \wedge ((v5_vectsp_1 \ k16_quatern2) \wedge (v6_vectsp_1 \ k16_quatern2)))))))))) & (4) \end{aligned}$$

Assume the following.

$$(v36_algstr_0 \ k16_quatern2) \wedge (v4_vectsp_1 \ k16_quatern2) \quad (5)$$

Assume the following.

$$(\neg v2_struct_0\ k16_quatern2) \wedge (v36_algstr_0\ k16_quatern2) \quad (6)$$

Assume the following.

$$(v36_algstr_0\ k16_quatern2) \wedge (l6_algstr_0\ k16_quatern2) \quad (7)$$

Theorem 1

$$\forall X0. (m1_subset_1\ X0\ (u1_struct_0\ k16_quatern2)) \Rightarrow (k4_algstr_0\ k16_quatern2\ X0 = k6_algstr_0\ k16_quatern2\ (k4_algstr_0\ k16_quatern2\ (k1_group_1\ k16_quatern2))\ X0)$$