

t41_quatern2
(TMbq6o9pzmbCCmzbUJN8dhTMdYiJv9pJoFQ)

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Let $k17_quatern2 : \iota \Rightarrow \iota$ be given. Let $k4_struct_0 : \iota \Rightarrow \iota$ be given. Let $k16_quatern2 : \iota$ be given. Let $v1_quaterni : \iota \Rightarrow o$ be given. Let $k6_numbers : \iota$ be given. Let $k31_quaterni : \iota \Rightarrow \iota$ be given. Let $k30_quaterni : \iota \Rightarrow \iota$ be given. Let $k1_quatern2 : \iota$ be given. Let $k21_quaterni : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $u1_struct_0 : \iota \Rightarrow \iota$ be given. Let $k1_quaterni : \iota$ be given. Let $v36_algstr_0 : \iota \Rightarrow o$ be given. Let $l6_algstr_0 : \iota \Rightarrow o$ be given. Let $u1_algstr_0 : \iota \Rightarrow \iota$ be given. Let $k10_quatern2 : \iota$ be given. Let $u2_algstr_0 : \iota \Rightarrow \iota$ be given. Let $k12_quatern2 : \iota$ be given. Let $k5_struct_0 : \iota \Rightarrow \iota$ be given. Let $k2_quatern2 : \iota$ be given. Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow ((X0 = k6_numbers) \Rightarrow (k31_quaterni X0 = k6_numbers)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (k31_quaterni X0 = k30_quaterni X0) \quad (2)$$

Assume the following.

$$k1_quatern2 = k21_quaterni \quad (3)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 (u1_struct_0 k16_quatern2)) \Rightarrow (k17_quatern2 X0 = k30_quaterni X0) \quad (4)$$

Assume the following.

$$v1_quaterni k21_quaterni \quad (5)$$

Assume the following.

$$m1_subset_1 k1_quatern2 k1_quaterni \quad (6)$$

Assume the following.

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

Assume the following.

$$k21_quaterni = k6_numbers \quad (8)$$

Assume the following.

$$\begin{aligned} \forall X0.((v36_algstr_0 X0) \wedge (l6_algstr_0 X0)) \Rightarrow ((X0 = k16_quatern2) \Leftrightarrow \\ ((u1_struct_0 X0 = k1_quaterni) \wedge ((u1_algstr_0 X0 = k10_quatern2) \wedge \\ ((u2_algstr_0 X0 = k12_quatern2) \wedge ((k5_struct_0 X0 = k2_quatern2) \wedge \\ (k4_struct_0 X0 = k1_quatern2)))))) \end{aligned} \quad (9)$$

Theorem 1 $k17_quatern2 (k4_struct_0 k16_quatern2) = k4_struct_0 k16_quatern2$.