

t59_quaterni (TM-
SJETEt1nmfgAHGN2XfUy3WUoBHJEdJi7p)

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Let $v1_quaterni : \iota \Rightarrow o$ be given. Let $k17_quaterni : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k31_quaterni : \iota \Rightarrow \iota$ be given. Let $k28_quaterni : \iota \Rightarrow \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k4_xcmplx_0 : \iota \Rightarrow \iota$ be given. Let $k30_quaterni : \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k12_quaterni : \iota$ be given. Let $k5_quaterni : \iota$ be given. Let $k11_quaterni : \iota$ be given. Let $k4_quaterni : \iota$ be given. Let $k26_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k23_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k25_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k18_quaterni : \iota \Rightarrow \iota$ be given. Let $k1_xcmplx_0 : \iota$ be given. Let $k19_quaterni : \iota \Rightarrow \iota$ be given. Let $k20_quaterni : \iota \Rightarrow \iota$ be given. Let $k21_quaterni : \iota$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$(m2_subset_1 np_0 k1_numbers k5_numbers) \wedge ((m1_subset_1 np_0 k5_numbers) \wedge (m1_subset_1 np_0 k1_numbers)) \quad (2)$$

Assume the following.

$$v1_xboole_0 np_0 \quad (3)$$

Assume the following.

$$k4_xcmplx_0 np_0 = np_0 \quad (4)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (5)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (k31_quaterni X0 = k30_quaterni X0) \quad (6)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers)\Rightarrow(k1_real_1 X0 = k4_xcmplx_0 X0) \quad (7)$$

Assume the following.

$$k12_quaterni = k5_quaterni \quad (8)$$

Assume the following.

$$k11_quaterni = k4_quaterni \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_quaterni X0)\Rightarrow & (k28_quaterni X0 = k26_quaterni (\\ & k26_quaterni (k23_quaterni (k1_real_1 (k17_quaterni X0)) (k25_quaterni \\ & (k1_real_1 (k18_quaterni X0)) k1_xcmplx_0)) (k25_quaterni (k1_real_1 \\ & (k19_quaterni X0)) k11_quaterni)) (k25_quaterni (k1_real_1 (\\ & k20_quaterni X0)) k12_quaterni)) \end{aligned} \quad (10)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_quaterni X0)\Rightarrow & (k30_quaterni X0 = k26_quaterni (\\ & k26_quaterni (k23_quaterni (k17_quaterni X0)) (k25_quaterni (\\ & k1_real_1 (k18_quaterni X0)) k1_xcmplx_0)) (k25_quaterni (k1_real_1 \\ & (k19_quaterni X0)) k11_quaterni)) (k25_quaterni (k1_real_1 (\\ & k20_quaterni X0)) k12_quaterni)) \end{aligned} \quad (11)$$

Assume the following.

$$k21_quaterni = k6_numbers \quad (12)$$

Theorem 1

$$\forall X0.(v1_quaterni X0)\Rightarrow((k17_quaterni X0 = k6_numbers)\Rightarrow(k31_quaterni X0 = k28_quaterni X0))$$