

t55_quaterni
(TMd8bYB1GHu38a98ME4Lr12Ns9kFK1cR3Vk)

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Let $v1_quaterni : \iota \Rightarrow o$ be given. Let $k31_quaterni : \iota \Rightarrow \iota$ be given. Let $k28_quaterni : \iota \Rightarrow \iota$ be given. Let $k17_quaterni : \iota \Rightarrow \iota$ be given. Let $k18_quaterni : \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $k19_quaterni : \iota \Rightarrow \iota$ be given. Let $k20_quaterni : \iota \Rightarrow \iota$ be given. Let $k8_quaterni : \iota \Rightarrow \iota$ 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 $k1_xcmplx_0 : \iota$ be given. Let $k11_quaterni : \iota$ be given. Let $k12_quaterni : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_quaterni : \iota$ be given. Assume the following.

$$\begin{aligned} \forall X0.(v1_quaterni X0) \Rightarrow & ((k17_quaterni (k31_quaterni X0) = \\ & k17_quaterni X0) \wedge ((k18_quaterni (k31_quaterni X0) = k1_real_1 \\ & (k18_quaterni X0)) \wedge ((k19_quaterni (k31_quaterni X0) = k1_real_1 \\ & (k19_quaterni X0)) \wedge (k20_quaterni (k31_quaterni X0) = k1_real_1 \\ & (k20_quaterni X0)))))) \end{aligned} \quad (1)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_quaterni X0) \Rightarrow & ((k17_quaterni (k28_quaterni X0) = \\ & k1_real_1 (k17_quaterni X0)) \wedge ((k18_quaterni (k28_quaterni X0) = \\ & k1_real_1 (k18_quaterni X0)) \wedge ((k19_quaterni (k28_quaterni X0) = \\ & k1_real_1 (k19_quaterni X0)) \wedge (k20_quaterni (k28_quaterni X0) = \\ & k1_real_1 (k20_quaterni X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (k28_quaterni X0 = k8_quaterni X0) \quad (3)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_quaterni X0) \Rightarrow & (k28_quaterni X0 = k26_quaterni (\\ & k26_quaterni (k23_quaterni (k1_real_1 (k17_quaterni X0)) (k25_quaterni \\ & (k1_real_1 (k18_quaterni X0)) k1_xcmplx_0)) (k25_quaterni (k1_real_1 \\ & (k19_quaterni X0)) k11_quaterni)) (k25_quaterni (k1_real_1 (\\ & k20_quaterni X0)) k12_quaterni)) \end{aligned} \quad (4)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (k28_quaterni (k28_quaterni X0) = X0) \quad (5)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (v1_quaterni (k8_quaterni X0)) \quad (6)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (m1_subset_1 (k31_quaterni X0) k1_quaterni) \quad (7)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_quaterni) \Rightarrow (v1_quaterni X0) \quad (8)$$

Theorem 1

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