

t46_quaterni (TM-
Mve1K6hiQT6SF4kwekDA3mhWzvHGAzH3s)

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Let $v1_quaterni : \iota \Rightarrow o$ be given. Let $k31_quaterni : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ 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 $k6_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k1_quaterni : \iota$ 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.

$$\begin{aligned} \forall X0.(v1_quaterni X0) \Rightarrow (&((k17_quaterni (k31_quaterni X0) = \\ &k17_quaterni X0) \wedge ((k18_quaterni (k31_quaterni X0) = k1_real_1 \\ &(k18_quaterni X0)) \wedge ((k19_quaterni (k31_quaterni X0) = k1_real_1 \\ &(k19_quaterni X0)) \wedge (k20_quaterni (k31_quaterni X0) = k1_real_1 \\ &(k20_quaterni X0)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (k31_quaterni X0 = k6_quaterni (k17_quaterni X0) (k1_real_1 (k18_quaterni X0)) (k1_real_1 (k19_quaterni X0)) (k1_real_1 (k20_quaterni X0))) \quad (3)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (X0 = k6_quaterni (k17_quaterni X0) (k18_quaterni X0) (k19_quaterni X0) (k20_quaterni X0)) \quad (4)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (k1_real_1 (k1_real_1 X0) = X0) \quad (5)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (m1_subset_1 (k31_quaterni X0) k1_quaterni) \quad (6)$$

Assume the following.

$$\forall X0.(v1_quaterni\ X0)\Rightarrow(m1_subset_1\ (k20_quaterni\ X0)\ k1_numbers) \quad (7)$$

Assume the following.

$$\forall X0.(v1_quaterni\ X0)\Rightarrow(m1_subset_1\ (k19_quaterni\ X0)\ k1_numbers) \quad (8)$$

Assume the following.

$$\forall X0.(v1_quaterni\ X0)\Rightarrow(m1_subset_1\ (k18_quaterni\ X0)\ k1_numbers) \quad (9)$$

Assume the following.

$$\forall X0.(m1_subset_1\ X0\ k1_quaterni)\Rightarrow(v1_quaterni\ X0) \quad (10)$$

Theorem 1

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