

t56_quaterni (TMVdafUowcuWQn- bgn9HmLxpCdDjnHrtNTpr)

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Let $v1_quaterni : \iota \Rightarrow o$ be given. Let $k31_quaterni : \iota \Rightarrow \iota$ be given. Let $k29_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k28_quaterni : \iota \Rightarrow \iota$ be given. Let $k26_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k9_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8_quaterni : \iota \Rightarrow \iota$ be given. Let $k7_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_quaterni : \iota$ be given. Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (k31_quaterni (k28_quaterni X0) = k28_quaterni (k31_quaterni X0)) \quad (1)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (\forall X1.(v1_quaterni X1) \Rightarrow (k31_quaterni (k26_quaterni X0 X1) = k26_quaterni (k31_quaterni X0) (k31_quaterni X1))) \quad (2)$$

Assume the following.

$$\forall X0.\forall X1.((v1_quaterni X0) \wedge (v1_quaterni X1)) \Rightarrow (k29_quaterni X0 X1 = k9_quaterni X0 X1) \quad (3)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (k28_quaterni X0 = k8_quaterni X0) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1_quaterni X0) \wedge (v1_quaterni X1)) \Rightarrow (k26_quaterni X0 X1 = k7_quaterni X0 X1) \quad (5)$$

Assume the following.

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

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (m1_subset_1 (k28_quaterni X0) k1_quaterni) \quad (7)$$

Assume the following.

$$\forall X0.(v1_quaterni\ X0) \Rightarrow (\forall X1.(v1_quaterni\ X1) \Rightarrow (k9_quaterni\ X0\ X1 = k7_quaterni\ X0\ (k8_quaterni\ X1))) \quad (8)$$

Assume the following.

$$\forall X0.(m1_subset.1\ X0\ k1_quaterni) \Rightarrow (v1_quaterni\ X0) \quad (9)$$

Theorem 1

$$\forall X0.(v1_quaterni\ X0) \Rightarrow (\forall X1.(v1_quaterni\ X1) \Rightarrow (k31_quaterni\ (k29_quaterni\ X0\ X1) = k29_quaterni\ (k31_quaterni\ X0)\ (k31_quaterni\ X1)))$$