

t84_quaterni
(TMTj7758BkFpHm1BoDNXPtUXcjqX9U4pKzX)

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Let $v1_quaterni : \iota \Rightarrow o$ be given. Let $k32_quaterni : \iota \Rightarrow \iota$ be given. Let $k29_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k21_quaterni : \iota$ be given. Let $k26_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_quaterni : \iota$ be given. Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow ((k32_quaterni X0 = k6_numbers) \Rightarrow (X0 = k6_numbers)) \quad (1)$$

Assume the following.

$$k32_quaterni k21_quaterni = k6_numbers \quad (2)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (\forall X1.(v1_quaterni X1) \Rightarrow ((k29_quaterni X0 X1 = k6_numbers) \Rightarrow (X0 = X1))) \quad (3)$$

Assume the following.

$$\forall X0.(v1_quaterni X0) \Rightarrow (\forall X1.(v1_quaterni X1) \Rightarrow (X0 = k29_quaterni (k26_quaterni X0 X1) X1)) \quad (4)$$

Assume the following.

$$\forall X0.\forall X1.((v1_quaterni X0) \wedge (v1_quaterni X1)) \Rightarrow (m1_subset_1 (k29_quaterni X0 X1) k1_quaterni) \quad (5)$$

Assume the following.

$$\forall X0.\forall X1.((v1_quaterni X0) \wedge (v1_quaterni X1)) \Rightarrow (m1_subset_1 (k26_quaterni X0 X1) k1_quaterni) \quad (6)$$

Assume the following.

$$v1_quaterni k21_quaterni \quad (7)$$

Assume the following.

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

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_quaterni) \Rightarrow (v1_quaterni X0) \quad (9)$$

Theorem 1

$$\forall X0.(v1_quaterni X0) \Rightarrow (\forall X1.(v1_quaterni X1) \Rightarrow ((k32_quaterni (k29_quaterni X0 X1) = k6_numbers) \Leftrightarrow (X0 = X1)))$$