

t1_quatern2 (TMUY- cbuk7TE6Ty6crTDQcCKLQuyYpuipf4n)

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Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k6_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ 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 $v1_quaterni : \iota \Rightarrow o$ be given. Let $k7_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k1_quaterni : \iota$ be given. Assume the following.

$$\forall X0. \forall X1. ((v1_quaterni X0) \wedge (v1_quaterni X1)) \Rightarrow (k26_quaterni X0 X1 = k7_quaterni X0 X1) \quad (1)$$

Assume the following.

$$\begin{aligned} & \forall X0. (m1_subset_1 X0 k1_numbers) \Rightarrow (\forall X1. (m1_subset_1 \\ & X1 k1_numbers) \Rightarrow (\forall X2. (m1_subset_1 X2 k1_numbers) \Rightarrow (\forall X3. \\ & (m1_subset_1 X3 k1_numbers) \Rightarrow (k6_quaterni X0 X1 X2 X3 = k7_quaterni \\ & (k7_quaterni (k23_quaterni X0 (k25_quaterni X1 k1_xcmplx_0)) \\ & (k25_quaterni X2 k11_quaterni)) (k25_quaterni X3 k12_quaterni)))))) \end{aligned} \quad (2)$$

Assume the following.

$$\forall X0. \forall X1. ((v1_quaterni X0) \wedge (v1_quaterni X1)) \Rightarrow (v1_quaterni (k7_quaterni X0 X1)) \quad (3)$$

Assume the following.

$$v1_quaterni k1_xcmplx_0 \quad (4)$$

Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 X0 k1_numbers) \wedge (v1_quaterni X1)) \Rightarrow (v1_quaterni (k25_quaterni X0 X1)) \quad (5)$$

Assume the following.

$$\forall X0. \forall X1. ((m1_subset_1 X0 k1_numbers) \wedge (v1_quaterni X1)) \Rightarrow (v1_quaterni (k23_quaterni X0 X1)) \quad (6)$$

Assume the following.

$$m1_subset_1 \ k12_quaterni \ k1_quaterni \quad (7)$$

Assume the following.

$$m1_subset_1 \ k11_quaterni \ k1_quaterni \quad (8)$$

Assume the following.

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

Theorem 1

$$\begin{aligned} & \forall X0.(m1_subset_1 \ X0 \ k1_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & \quad X1 \ k1_numbers) \Rightarrow (\forall X2.(m1_subset_1 \ X2 \ k1_numbers) \Rightarrow (\forall X3. \\ & (m1_subset_1 \ X3 \ k1_numbers) \Rightarrow (k6_quaterni \ X0 \ X1 \ X2 \ X3 = k26_quaterni \\ & \quad (k26_quaterni \ (k23_quaterni \ X0 \ (k25_quaterni \ X1 \ k1_xcmplx_0)) \\ & \quad (k25_quaterni \ X2 \ k11_quaterni)) \ (k25_quaterni \ X3 \ k12_quaterni)))))) \end{aligned}$$