

t48_quaterni
(TMbhSE93iXpto7j7HwK6kq6TkXrLnSTp5rx)

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Let $k17_quaterni : \iota \Rightarrow \iota$ be given. Let $k31_quaterni : \iota \Rightarrow \iota$ be given. Let $k1_xcmplx_0 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k18_quaterni : \iota \Rightarrow \iota$ be given. Let $k1_real_1 : \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k19_quaterni : \iota \Rightarrow \iota$ be given. Let $k20_quaterni : \iota \Rightarrow \iota$ be given. Let $v1_quaterni : \iota \Rightarrow o$ 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.

$$(k17_quaterni k1_xcmplx_0 = k6_numbers) \wedge ((k18_quaterni k1_xcmplx_0 = np_1) \wedge ((k19_quaterni k1_xcmplx_0 = k6_numbers) \wedge (k20_quaterni k1_xcmplx_0 = k6_numbers))) \quad (2)$$

Assume the following.

$$k6_numbers = k1_real_1 k6_numbers \quad (3)$$

Assume the following.

$$v1_quaterni k1_xcmplx_0 \quad (4)$$

Theorem 1

$$\begin{aligned} (k17_quaterni (k31_quaterni k1_xcmplx_0) = k6_numbers) \wedge & ((k18_quaterni \\ & (k31_quaterni k1_xcmplx_0) = k1_real_1 np_1) \wedge ((k19_quaterni \\ & (k31_quaterni k1_xcmplx_0) = k6_numbers) \wedge (k20_quaterni (k31_quaterni \\ & k1_xcmplx_0) = k6_numbers))) \end{aligned}$$