

t52_quaterni (TMZDgkQJNxNc- NUBb2n6bZkr2v5TJeUWfMbz)

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Let $k31_quaterni : \iota \Rightarrow \iota$ be given. Let $k11_quaterni : \iota$ be given. Let $k28_quaterni : \iota \Rightarrow \iota$ be given. Let $k17_quaterni : \iota \Rightarrow \iota$ 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. Let $k12_quaterni : \iota$ be given. Let $k30_quaterni : \iota \Rightarrow \iota$ be given. Let $k4_quaterni : \iota$ 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. Assume the following.

$$\begin{aligned} & (k17_quaterni (k31_quaterni k1_xcmplx_0) = k6_numbers) \wedge ((k18_quaterni \\ & \quad (k31_quaterni k1_xcmplx_0) = k1_real_1 np_1) \wedge ((k19_quaterni \\ & \quad (k31_quaterni k1_xcmplx_0) = k6_numbers) \wedge (k20_quaterni (k31_quaterni \\ & \quad \quad k1_xcmplx_0) = k6_numbers))) \end{aligned} \tag{1}$$

Assume the following.

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

Assume the following.

$$\begin{aligned} & (k17_quaterni k11_quaterni = k6_numbers) \wedge ((k18_quaterni k11_quaterni = \\ & \quad k6_numbers) \wedge ((k19_quaterni k11_quaterni = np_1) \wedge ((k20_quaterni \\ & \quad k11_quaterni = k6_numbers) \wedge ((k17_quaterni k12_quaterni = k6_numbers) \wedge \\ & \quad ((k18_quaterni k12_quaterni = k6_numbers) \wedge ((k19_quaterni k12_quaterni = \\ & \quad \quad k6_numbers) \wedge (k20_quaterni k12_quaterni = np_1))))) \end{aligned} \tag{3}$$

Assume the following.

$$\begin{aligned} & (k17_quaterni k1_xcmplx_0 = k6_numbers) \wedge ((k18_quaterni k1_xcmplx_0 = \\ & \quad np_1) \wedge ((k19_quaterni k1_xcmplx_0 = k6_numbers) \wedge (k20_quaterni \\ & \quad \quad k1_xcmplx_0 = k6_numbers))) \end{aligned} \tag{4}$$

Assume the following.

$$\forall X0.(v1_quaterni\ X0) \Rightarrow (k31_quaterni\ X0 = k30_quaterni\ X0) \quad (5)$$

Assume the following.

$$k11_quaterni = k4_quaterni \quad (6)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_quaterni\ X0) \Rightarrow & (k28_quaterni\ X0 = k26_quaterni\ (\\ & k26_quaterni\ (k23_quaterni\ (k1_real_1\ (k17_quaterni\ X0))\ (k25_quaterni\ (\\ & (k1_real_1\ (k18_quaterni\ X0))\ k1_xcmplx_0))\ (k25_quaterni\ (k1_real_1\ (\\ & (k19_quaterni\ X0))\ k11_quaterni))\ (k25_quaterni\ (k1_real_1\ (\\ & k20_quaterni\ X0))\ k12_quaterni)) \end{aligned} \quad (7)$$

Assume the following.

$$v1_quaterni\ k4_quaterni \quad (8)$$

Assume the following.

$$v1_quaterni\ k1_xcmplx_0 \quad (9)$$

Assume the following.

$$\begin{aligned} \forall X0.(v1_quaterni\ X0) \Rightarrow & (k30_quaterni\ X0 = k26_quaterni\ (\\ & k26_quaterni\ (k23_quaterni\ (k17_quaterni\ X0)\ (k25_quaterni\ (\\ & k1_real_1\ (k18_quaterni\ X0))\ k1_xcmplx_0))\ (k25_quaterni\ (k1_real_1\ (\\ & (k19_quaterni\ X0))\ k11_quaterni))\ (k25_quaterni\ (k1_real_1\ (\\ & k20_quaterni\ X0))\ k12_quaterni)) \end{aligned} \quad (10)$$

Theorem 1 $k31_quaterni\ k11_quaterni = k28_quaterni\ k11_quaterni$.