

t70_quaterni

(TMN91b6wbHKX7q8rLYsnHfZyaL67h7zeskG)

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Let $k32_quaterni : \iota \Rightarrow \iota$ be given. Let $k11_quaterni : \iota$ be given. Let $np_1 : \iota$ be given. Let $v1_xboole_0 : \iota \Rightarrow o$ be given. Let $k1_xboole_0 : \iota$ be given. Let $k17_quaterni : \iota \Rightarrow \iota$ be given. Let $k6_numbers : \iota$ be given. Let $k18_quaterni : \iota \Rightarrow \iota$ be given. Let $k19_quaterni : \iota \Rightarrow \iota$ be given. Let $k20_quaterni : \iota \Rightarrow \iota$ be given. Let $k12_quaterni : \iota$ be given. Let $k7_square_1 : \iota \Rightarrow \iota$ be given. Let $v2_xxreal_0 : \iota \Rightarrow o$ be given. Let $m2_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1_numbers : \iota$ be given. Let $k5_numbers : \iota$ be given. Let $m1_subset_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $np_0 : \iota$ be given. Let $k3_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k2_xcmplx_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $v1_xreal_0 : \iota \Rightarrow o$ be given. Let $k7_real_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_square_1 : \iota \Rightarrow \iota$ be given. Let $k3_square_1 : \iota \Rightarrow \iota$ be given. Let $k4_quaterni : \iota$ be given. Let $v1_quaterni : \iota \Rightarrow o$ be given. Let $v1_xcmplx_0 : \iota \Rightarrow o$ be given. Assume the following.

$$\forall X0.(v1_xboole_0 X0) \Rightarrow (X0 = k1_xboole_0) \quad (1)$$

Assume the following.

$$\begin{aligned} & (k17_quaterni\ k11_quaterni = k6_numbers) \wedge ((k18_quaterni\ k11_quaterni = \\ & \quad k6_numbers) \wedge ((k19_quaterni\ k11_quaterni = np_1) \wedge ((k20_quaterni \\ & \quad k11_quaterni = k6_numbers) \wedge ((k17_quaterni\ k12_quaterni = k6_numbers) \wedge \\ & \quad ((k18_quaterni\ k12_quaterni = k6_numbers) \wedge ((k19_quaterni\ k12_quaterni = \\ & \quad k6_numbers) \wedge (k20_quaterni\ k12_quaterni = np_1)))))) \end{aligned} \quad (2)$$

Assume the following.

$$k7_square_1\ np_1 = np_1 \quad (3)$$

Assume the following.

$$\begin{aligned} & ((v2_xxreal_0\ np_1) \wedge (m2_subset_1\ np_1\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_1\ k5_numbers) \wedge (m1_subset_1\ np_1\ k1_numbers)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & (m2_subset_1\ np_0\ k1_numbers\ k5_numbers) \wedge ((m1_subset_1\ np_0 \\ & \quad k5_numbers) \wedge (m1_subset_1\ np_0\ k1_numbers)) \end{aligned} \quad (5)$$

Assume the following.

$$v1_xboole_0 \text{ } np_0 \tag{6}$$

Assume the following.

$$k3_xcmplx_0 \text{ } np_1 \text{ } np_1 = np_1 \tag{7}$$

Assume the following.

$$k3_xcmplx_0 \text{ } np_0 \text{ } np_0 = np_0 \tag{8}$$

Assume the following.

$$k2_xcmplx_0 \text{ } np_1 \text{ } np_0 = np_1 \tag{9}$$

Assume the following.

$$k2_xcmplx_0 \text{ } np_0 \text{ } np_1 = np_1 \tag{10}$$

Assume the following.

$$k2_xcmplx_0 \text{ } np_0 \text{ } np_0 = np_0 \tag{11}$$

Assume the following.

$$\forall X0.\forall X1.((m1_subset_1 \text{ } X0 \text{ } k1_numbers)\wedge(v1_xreal_0 \text{ } X1))\Rightarrow(k7_real_1 \text{ } X0 \text{ } X1 = k2_xcmplx_0 \text{ } X0 \text{ } X1) \tag{12}$$

Assume the following.

$$k6_numbers = k1_xboole_0 \tag{13}$$

Assume the following.

$$\forall X0.(m1_subset_1 \text{ } X0 \text{ } k1_numbers)\Rightarrow(k5_square_1 \text{ } X0 = k3_square_1 \text{ } X0) \tag{14}$$

Assume the following.

$$k11_quaterni = k4_quaterni \tag{15}$$

Assume the following.

$$v1_quaterni \text{ } k4_quaterni \tag{16}$$

Assume the following.

$$\forall X0.(v1_quaterni \text{ } X0)\Rightarrow(k32_quaterni \text{ } X0 = k7_square_1 \text{ } (k7_real_1 \text{ } (k7_real_1 \text{ } (k5_square_1 \text{ } (k17_quaterni \text{ } X0)) \text{ } (k5_square_1 \text{ } (k18_quaterni \text{ } X0))) \text{ } (k5_square_1 \text{ } (k19_quaterni \text{ } X0))) \text{ } (k5_square_1 \text{ } (k20_quaterni \text{ } X0)))) \tag{17}$$

Assume the following.

$$\forall X0.(v1_xcmplx_0 X0) \Rightarrow (k3_square_1 X0 = k3_xcmplx_0 X0 X0) \quad (18)$$

Assume the following.

$$\forall X0.(v1_xreal_0 X0) \Rightarrow (v1_xcmplx_0 X0) \quad (19)$$

Assume the following.

$$\forall X0.(m1_subset_1 X0 k1_numbers) \Rightarrow (v1_xreal_0 X0) \quad (20)$$

Theorem 1 $k32_quaterni k11_quaterni = np_1$.