

157_quaterni (TM-
FWwRA89WUm6Pa.MfBbqdGUjpA2Xbct4KSn)

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Let $k6_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np_1 : \iota$ be given. Let $k6_numbers : \iota$ be given. Let $v2_xreal_0 : \iota \Rightarrow o$ 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 $k1_xboole_0 : \iota$ be given. Let $k5_arytm_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5_funct_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\begin{aligned} & ((v2_xreal_0\ np_1) \wedge (m2_subset_1\ np_1\ k1_numbers\ k5_numbers)) \wedge \\ & ((m1_subset_1\ np_1\ k5_numbers) \wedge (m1_subset_1\ np_1\ k1_numbers)) \end{aligned} \quad (1)$$

Assume the following.

$$k6_numbers = k1_xboole_0 \quad (2)$$

Assume the following.

$$m1_subset_1\ k6_numbers\ k1_numbers \quad (3)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1\ X0\ k1_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1\ k1_numbers) \Rightarrow (k6_quaterni\ X0\ X1\ k6_numbers\ k6_numbers = k5_arytm_0 \\ & X0\ X1)) \end{aligned} \quad (4)$$

Assume the following.

$$\begin{aligned} & \forall X0.(m1_subset_1\ X0\ k1_numbers) \Rightarrow (\forall X1.(m1_subset_1 \\ & X1\ k1_numbers) \Rightarrow (((X1 = k6_numbers) \Rightarrow (k5_arytm_0\ X0\ X1 = X0)) \wedge ((\\ & X1 \neq k6_numbers) \Rightarrow (k5_arytm_0\ X0\ X1 = k5_funct_4\ k1_numbers\ k6_numbers \\ & np_1\ X0\ X1)))) \end{aligned} \quad (5)$$

Theorem 1 $k6_quaterni\ np_1\ k6_numbers\ k6_numbers\ k6_numbers = np_1$.