t10_quatern3 (TMdBwQFFkF-PnE1tXGMwkYicdC1cnktKJxJG)

October 27, 2020

Let $v1\_quaterni : \iota \Rightarrow o$ be given. Let $k18\_quaterni : \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k19\_quaterni : \iota \Rightarrow \iota$ be given. Let $k20\_quaterni : \iota \Rightarrow \iota$ be given. Let $k17\_quaterni : \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k6\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_arytm\_0 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_funct\_4 : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $np\_\_1 : \iota$ be given. Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k1\_numbers) \Rightarrow (k6\_quaterni\ X0\ X1\ k6\_numbers\ k6\_numbers = k5\_arytm\_0\ X0\ X1)) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (X0 = k6\_quaterni\ (k17\_quaterni\ X0)\ (k18\_quaterni\ X0)\ (k19\_quaterni\ X0)\ (k20\_quaterni\ X0)) \tag{2}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (m1\_subset\_1\ (k20\_quaterni\ X0)\ k1\_numbers) \tag{3}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (m1\_subset\_1\ (k17\_quaterni\ X0)\ k1\_numbers) \tag{4}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k1\_numbers) \Rightarrow (((X1 = k6\_numbers) \Rightarrow (k5\_arytm\_0\ X0\ X1 = X0)) \wedge ((X1 \neq k6\_numbers) \Rightarrow (k5\_arytm\_0\ X0\ X1 = k5\_funct\_4\ k1\_numbers\ k6\_numbers\ np\_\_1\ X0\ X1)))) \tag{5}$$

Theorem 1

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (((k18\_quaterni\ X0 = k6\_numbers) \wedge ((k19\_quaterni\ X0 = k6\_numbers) \wedge (k20\_quaterni\ X0 = k6\_numbers))) \Rightarrow (X0 = k17\_quaterni\ X0))$$