t44_quaterni (TMKkzrJezzaDJ3JKv1VXqByHXR1Dq89ZycD)

October 27, 2020

Let $v1\_quaterni : \iota \Rightarrow o$ be given. Let $k17\_quaterni : \iota \Rightarrow \iota$ be given. Let $k31\_quaterni : \iota \Rightarrow \iota$ be given. Let $k18\_quaterni : \iota \Rightarrow \iota$ be given. Let $k1\_real\_1 : \iota \Rightarrow \iota$ be given. Let $k19\_quaterni : \iota \Rightarrow \iota$ be given. Let $k20\_quaterni : \iota \Rightarrow \iota$ be given. Let $k6\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (k31\_quaterni\ X0 = k6\_quaterni\ (k17\_quaterni\ X0)\ (k1\_real\_1\ (k18\_quaterni\ X0))\ (k1\_real\_1\ (k19\_quaterni\ X0))\ (k1\_real\_1\ (k20\_quaterni\ X0))) \tag{1}$$

Assume the following.

$$\forall X0.(m1\_subset\_1\ X0\ k1\_numbers) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k1\_numbers) \Rightarrow (\forall X2.(m1\_subset\_1\ X2\ k1\_numbers) \Rightarrow (\forall X3.(m1\_subset\_1\ X3\ k1\_numbers) \Rightarrow ((k17\_quaterni\ (k6\_quaterni\ X0\ X1\ X2\ X3) = X0) \wedge ((k18\_quaterni\ (k6\_quaterni\ X0\ X1\ X2\ X3) = X1) \wedge ((k19\_quaterni\ (k6\_quaterni\ X0\ X1\ X2\ X3) = X2) \wedge (k20\_quaterni\ (k6\_quaterni\ X0\ X1\ X2\ X3) = X3)))))))) \tag{2}$$

Assume the following.

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

Assume the following.

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

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (m1\_subset\_1\ (k19\_quaterni\ X0)\ k1\_numbers) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (m1\_subset\_1\ (k18\_quaterni\ X0)\ k1\_numbers) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (m1\_subset\_1\ (k17\_quaterni\ X0)\ k1\_numbers) \tag{7}$$

Theorem 1

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow ((k17\_quaterni\ (k31\_quaterni\ X0) = k17\_quaterni\ X0) \wedge ((k18\_quaterni\ (k31\_quaterni\ X0) = k1\_real\_1\ (k18\_quaterni\ X0)) \wedge ((k19\_quaterni\ (k31\_quaterni\ X0) = k1\_real\_1\ (k19\_quaterni\ X0)) \wedge (k20\_quaterni\ (k31\_quaterni\ X0) = k1\_real\_1\ (k20\_quaterni\ X0)))))$$