t7_quatern3 (TMUjBvwNhChKAtdax-PXkNKP5PodYR6a3ppo)

October 27, 2020

Let $v1\_quaterni : \iota \Rightarrow o$ be given. Let $m1\_subset\_1 : \iota \Rightarrow \iota \Rightarrow o$ be given. Let $k1\_numbers : \iota$ be given. Let $k27\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k12\_quaterni : \iota$ be given. Let $k6\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k6\_numbers : \iota$ be given. Let $k17\_quaterni : \iota \Rightarrow \iota$ 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. Let $k18\_quaterni : \iota \Rightarrow \iota$ be given. Let $k1\_xcmplx\_0 : \iota$ be given. Let $k19\_quaterni : \iota \Rightarrow \iota$ be given. Let $k11\_quaterni : \iota$ be given. Let $k20\_quaterni : \iota \Rightarrow \iota$ be given. Let $k10\_quaterni : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k5\_quaterni : \iota$ be given. Let $k9\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k8\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Let $k7\_real\_1 : \iota \Rightarrow \iota \Rightarrow \iota$ be given. Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (X0 = k26\_quaterni\ (k26\_quaterni\ (k23\_quaterni\ (k17\_quaterni\ X0)\ (k25\_quaterni\ (k18\_quaterni\ X0)\ k1\_xcmplx\_0))\ (k25\_quaterni\ (k19\_quaterni\ X0)\ k11\_quaterni))\ (k25\_quaterni\ (k20\_quaterni\ X0)\ k12\_quaterni)) \tag{1}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0) \Rightarrow (\forall X1.(m1\_subset\_1\ X1\ k1\_numbers) \Rightarrow ((X0 = X1) \Rightarrow ((k17\_quaterni\ (k10\_quaterni\ X0\ k12\_quaterni) = k6\_numbers) \wedge ((k18\_quaterni\ (k10\_quaterni\ X0\ k12\_quaterni) = k6\_numbers) \wedge ((k19\_quaterni\ (k10\_quaterni\ X0\ k12\_quaterni) = k6\_numbers) \wedge (k20\_quaterni\ (k10\_quaterni\ X0\ k12\_quaterni) = X1)))))) \tag{2}$$

Assume the following.

$$\forall X0.\forall X1.((v1\_quaterni\ X0) \wedge (v1\_quaterni\ X1)) \Rightarrow (k27\_quaterni\ X0\ X1 = k10\_quaterni\ X0\ X1) \tag{3}$$

Assume the following.

$$k12\_quaterni = k5\_quaterni \tag{4}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0)\Rightarrow(\forall X1.(v1\_quaterni\ X1)\Rightarrow((k17\_quaterni\ (k10\_quaterni\ X0\ X1) = k9\_real\_1\ (k9\_real\_1\ (k9\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k17\_quaterni\ X1))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k18\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k19\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k20\_quaterni\ X1)))\wedge((k18\_quaterni\ (k10\_quaterni\ X0\ X1) = k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k18\_quaterni\ X1))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k20\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k19\_quaterni\ X1)))\wedge((k19\_quaterni\ (k10\_quaterni\ X0\ X1) = k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k19\_quaterni\ X1))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k18\_quaterni\ X1)))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k20\_quaterni\ X1)))\wedge(k20\_quaterni\ (k10\_quaterni\ X0\ X1) = k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k20\_quaterni\ X1))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k19\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k18\_quaterni\ X1)))))))) \tag{5}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0)\Rightarrow(\forall X1.(v1\_quaterni\ X1)\Rightarrow(k10\_quaterni\ X0\ X1 = k6\_quaterni\ (k9\_real\_1\ (k9\_real\_1\ (k9\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k17\_quaterni\ X1))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k18\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k19\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k20\_quaterni\ X1)))\ (k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k18\_quaterni\ X1))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k20\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k19\_quaterni\ X1)))\ (k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k19\_quaterni\ X1))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k18\_quaterni\ X1)))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k20\_quaterni\ X1)))\ (k9\_real\_1\ (k7\_real\_1\ (k7\_real\_1\ (k8\_real\_1\ (k17\_quaterni\ X0)\ (k20\_quaterni\ X1))\ (k8\_real\_1\ (k20\_quaterni\ X0)\ (k17\_quaterni\ X1)))\ (k8\_real\_1\ (k18\_quaterni\ X0)\ (k19\_quaterni\ X1)))\ (k8\_real\_1\ (k19\_quaterni\ X0)\ (k18\_quaterni\ X1))))) \tag{6}$$

Assume the following.

$$\forall X0.(v1\_quaterni\ X0)\Rightarrow((m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow((X0 = k17\_quaterni\ X0)\wedge((k18\_quaterni\ X0 = k6\_numbers)\wedge((k19\_quaterni\ X0 = k6\_numbers)\wedge(k20\_quaterni\ X0 = k6\_numbers))))) \tag{7}$$

Assume the following.

$$v1\_quaterni\ k5\_quaterni \tag{8}$$

Theorem 1

$$\forall X0.(v1\_quaterni\ X0)\Rightarrow((m1\_subset\_1\ X0\ k1\_numbers)\Rightarrow(k27\_quaterni\ X0\ k12\_quaterni = k6\_quaterni\ k6\_numbers\ k6\_numbers\ k6\_numbers\ (k17\_quaterni\ X0)))$$